Aluminum statistical review for 1985

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the Aluminum Association

Aluminum statistical review for 1985

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Contents

The Aluminum Association does not warrant the accuracy or completeness of any data in this Review. All data contained herein are subject to revision.

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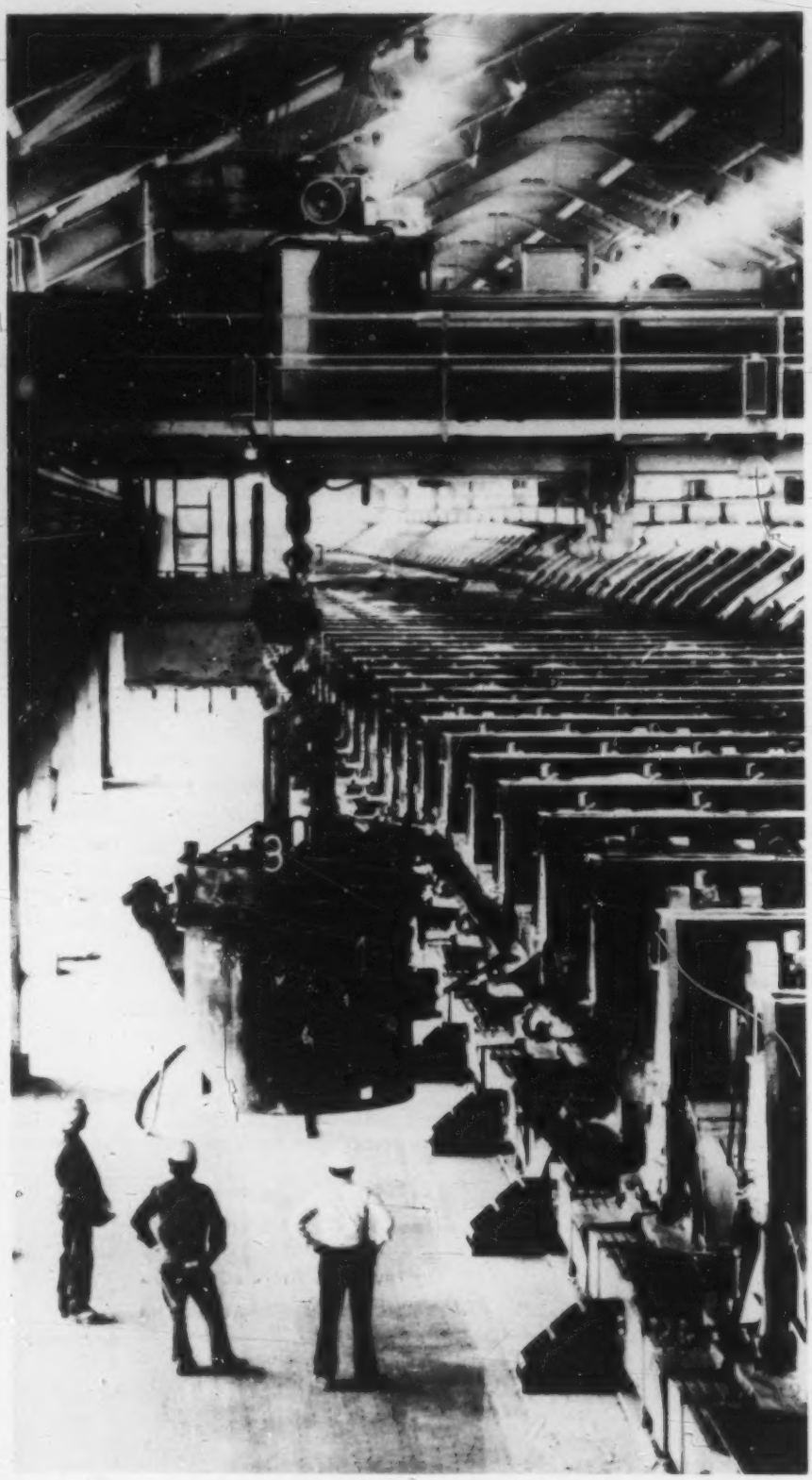
Introduction to Aluminum Statistics



ABOUT THE REVIEW

The Aluminum Association's Statistical Review for 1985 assembles in one place the most important statistical data available on the aluminum industry. It includes information on every cycle of the aluminum production process from primary aluminum to markets for finished goods.

The Aluminum Association, Inc., representing the United States aluminum industry, is the primary source for statistics, standards and other information on aluminum and the industry.

The Review is divided into five major sections: shipments, markets, supply, U.S. foreign trade, and world statistics. Each section is preceded by an introduction and description summary of the tables that follow. In addition each graph or table has a description and highlights. The Review shows detailed shipment figures for 23 separate product categories. A glossary of industry terms is appended as well.

Capsule Review

Millions of Pounds	1985	1984
Total Supply	14,537	15,951
Primary Production	7,716	9,037
Primary Capacity (Year-end)	9,579	10,498
Shipments to Major Markets		
Building and Construction	3,044	2,866r
Transportation	3,006	3,037r
Consumer Durables	1,051	1,106
Electrical	1,416	1,502r
Machinery & Equipment	832	832r
Containers & Packaging	4,108	4,031r
Other	617	1,077r
Total Domestic Shipments	14,074	14,445r
Exports	1,204	1,076
Total Shipments	15,278	15,521

r—Revised

Molten aluminum is siphoned from one of 198 pots in an aluminum industry potline.

1985 Highlights

14,074 million pounds of aluminum were shipped to U.S. markets in 1985, down 2.6 percent from the 1984 level of 14,445 million pounds. Aluminum exports of ingot and semifabricated products, however, increased 11.9 percent in 1985 to 1,204 million pounds.

Total aluminum shipments, including exports, dropped in 1985 to a level of 15,278 million pounds, a decline of 1.6 percent from 1984 shipments of 15.521 million pounds.

Total aluminum imports into the U.S. (including scrap) decreased to 3,224 million pounds in 1985, 3.4 percent below 1984 levels. Imports of aluminum ingot totaled 1,915 million pounds in 1985, a 1.5 percent decrease from the 1984 imports of 1,944 million pounds. Total imports of aluminum mill products in 1985 were 1,021 million pounds, a 6.3 percent drop from 1984 imports of 1,090 million pounds.

Consumer imports of mill products totalled 816 million pounds in 1985, down 5.8 percent from 1984 and achieved a 7.1 percent penetration of U.S. mill product consumption. Historically, the U.S. has been a net exporter of aluminum mill products, but this changed starting in 1983.

*"Net" shipments exclude intra-industry shipments for further fabrication. It is the most accurate measure of industry output to markets because it eliminates duplication. Reported receipts of aluminum for further processing are subtracted.

The **United States supply** of aluminum in 1985 dropped 8.9 percent to a level of 14,537 million pounds. Domestic primary production decreased 14.6 percent to 7,716 million pounds, imports of aluminum ingot and mill products were down 3.2 percent to 2,936 million pounds and domestic recovery from scrap accounted for 3.885 million pounds, a 0.1 percent increase over 1984.

Containers and Packaging continue to be the industry's largest market in 1985 with a volume of 4,108 million pounds and accounting for 26.9 percent of the total 1985 shipments. This market increased 1.9 percent over 1984 shipments of 4,031 million pounds.

The second largest market for 1985 was the **Building and Construction** market totaling 3,044 million pounds and accounting for 19.9 percent of the total shipments, increased 6.2 percent over 1984. The **Transportation** market 1985 shipments of 3,006 million pounds declined 0.8 percent from 1984 levels.

The **Electrical** market showed a decrease of 5.7 percent from 1984 with 1985 shipments at 1,416 million pounds. **Consumer Durables** shipments decreased 5.0 percent to 1,051 million pounds in 1985.

Shipments to the nonelectrical **Machinery and Equipment** market held constant at 832 million pounds.

Acknowledgements

The data for this **REVIEW** were developed by the Statistics Task Group of the Aluminum Association, Inc. along with the cooperation of the following organizations: National Association of Aluminum Distributors; Can Manufacturers Institute; Bureau of the Census, U.S. Department of Commerce; and the Bureau of Mines, U.S. Department of the Interior.

The **Aluminum Statistical Review** for 1985 was compiled and edited by Nicholas A. Adams, Manager, Market Statistics.

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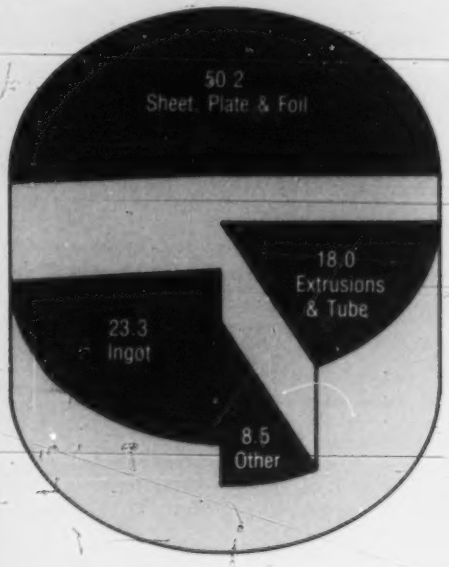
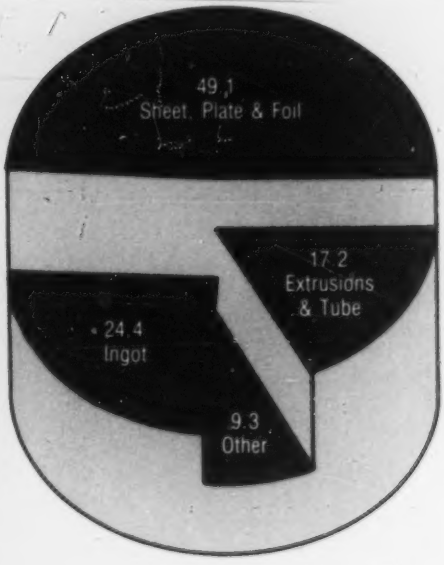
This edition covers in most tables the years 1975-1985. Data on the years 1960-1980 are available in a companion publication: **"Aluminum Statistical Review—Historical Supplement."** Contact the Aluminum Association for further information.

U.S. Aluminum Industry Shipments

Percentage Distribution by Major Products: 1985



Percentage Distribution by Major Products: 1984



*Other

Conductor	4.7 (5.0)
Rod, Bar, Wire, Forgings & Impacts	3.1 (3.6)
Powder	0.7 (0.7)

NOTE: 1984 percentages are shown in parentheses

SHIPMENTS DOWN 1.6 PERCENT

Total net shipments in 1985 amounted to 15,278 million pounds, 1.6 percent less than the 15,521 million pounds shipped in 1984.

The adjacent pie chart shows that the largest product category of sheet, plate and foil represented 50.2 percent of total shipments in 1985 (49.1% in 1984). Ingot for castings, destructive uses and exports accounted for 23.3 percent (24.4% in 1984) and extruded products and tube shipments were 18.0 percent (17.2% in 1984) of total shipments.

Excluding net imports, sheet and plate and foil volume of 7,255 million pounds were up 0.8 percent from 1984. Extruded products and tube shipments totaled 2,602 million pounds, up 3.2 percent from 1984.

Total shipments to U.S. consumers at 14,074 million pounds were down 2.6% from the 1984 level of 14,445 million pounds. Exports increased 11.9 percent from their 1984 level of 1,076 million pounds.

DESCRIPTION:

Total aluminum industry shipments presented on the next page are net shipments to U.S. consumers and for export. To avoid duplication, the figures do not include any intra-industry shipments for further fabrication into mill products. Imported ingot and mill products shipped to U.S. consumers are included.

Net shipments of ingot include domestic and import shipments and represent primary and secondary ingot shipments for export, for castings and destructive uses. Net shipments of mill products are shown separately for domestic and import. Mill product imports to aluminum producers are not included in total industry shipments. These imports are further processed by the producer into another mill product which is included in the total.

Imports to consumers are included in total industry shipments. These consumers fabricate the aluminum into a finished product. Imported mill products are net of receipts by producers of mill products. Imported mill products data include reimports of metal exported for processing and returned for further processing.

The pie charts illustrate the distribution of net shipments of aluminum ingot and mill product groups during 1985 and 1984. They include net shipments of ingot and domestic mill products but exclude imported mill products, because import data are not available in the same detail as domestic shipments of mill products. The distribution is based on data shown on pages 6 and 7. The imported mill products are shown on page 5.

For information on years prior to 1975 see the Aluminum Statistical Review—Historical Supplement.

Total Industry Shipments

Millions of Pounds

Net Shipments	1985 % Total	1985 Amount	1984 % Total	1984 Amount	1985-1984 % Change	1975-1985 % Annual Growth(3)
Total	100.0	15,278.1	100.0	15,523.1r	−1.6	+2.5
Ingot	22.1	3,370.5	23.1	3,579.5r	−5.8	+3.6
Mill Products	77.9	11,907.6	76.9	11,941.8r	−0.3	+2.2
U.S. Producer	72.6	11,091.5	71.4	11,075.9r	+0.1	+1.7
Consumer Imp.	5.3	816.1	5.6	865.9	−5.8	+17.1
U.S. Exports	7.9	1,204.2	6.9	1,076.4	+11.9	+4.8
U.S. Consumers	92.1	14,073.9	93.1	14,444.9r	−2.6	+2.3

Total Industry Shipments 1975-1985

Millions of Pounds

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Net Shipments											
Total	15,278.1	15,521.3r	14,153.2	12,505.1	13,814.4	14,351.0	14,867.3	14,425.3	12,986.0	12,425.1	9,928.5
Ingot	3,370.5	3,579.5r	3,044.8	3,090.3	3,236.4	3,723.8	3,287.0	2,672.3	2,388.3	2,540.1	2,377.7
Mill Products											
U.S. Producer	11,091.5	11,075.9r	10,577.5	9,026.8	10,337.8	10,484.9	11,230.4	11,346.0	10,442.9	9,705.6	7,426.6
Imported	816.1	865.9	530.8	388.0	240.2	142.3	349.9	407.0	154.8	178.3	124.3
U.S. Exports	1,204.2	1,076.4	1,240.9	1,294.7	1,370.0	2,193.3	1,022.9	747.4	712.2	820.5	805.0
U.S. Consumers(1)	14,073.9	14,444.9r	12,912.3	11,210.4	12,444.4	12,157.7	13,844.4	13,677.9	12,273.8	11,604.6	9,123.5

Detail may not add to totals due to rounding.

SOURCES: Current Industrial Report Series M33-2
Mill products, exports, imports: U.S. Department of Commerce, Bureau of The Census, Foreign Trade Division, and CIR Series M33-2

(1) Shipments to consumers in the U.S. are calculated by subracting exports of ingot and mill products from total industry shipments. Includes no adjustment for inventories in the hands of consumers.

Mill Products Imports 1975-1985

Millions of Pounds

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Total Imports(1)											
Total	1,020.7	1,089.7	618.3	455.6	303.9	168.1	426.3	484.5	164.8	189.0	130.2
Sheet & Plate	770.1	884.5	536.1	414.8	247.1	126.1	357.3	433.7	128.7	150.5	107.1
Rod & Bar	128.7	86.3	27.4	10.1	34.2	16.3	38.0	22.1	18.1	20.9	12.7
Other	121.9	118.9	54.9	30.7	22.6	25.7	31.0	28.7	18.0	17.6	10.4
Imports to Consumers(1)											
Total	816.1	865.9	531.7	388.0	240.2	142.3	349.9	407.0	154.8	178.3	124.3
Sheet & Plate	680.3	746.6r	477.4r	357.7	205.6	115.7	317.0	371.0	124.7	144.8	106.6
Rod & Bar	24.1	5.8r	9.3r	1.2	12.3	9.1	2.2	9.7	12.4	16.1	7.3
Other	111.7	113.5r	45.1r	29.2	22.3	17.5	30.7	26.3	17.7	17.3	10.4
Imports to Producers(2)											
Total	204.6	223.8	86.7r	67.6	63.7	25.8	76.4	77.5	10.0	10.8	5.9
Sheet & Plate	89.8	137.9r	58.8r	57.2	41.5	10.4	40.3	62.7	4.0	5.7	0.5
Rod & Bar	104.6	80.5r	18.1r	8.9	21.9	7.2	35.8	12.4	5.7	4.8	5.4
Other	10.2	5.4r	9.8r	1.5	0.3	8.2	0.3	2.4	0.3	0.3	*

**Less than 50 thousand pounds.*

Detail may not add to totals due to rounding.

(1) Includes reimports of metal exported for processing and returned for further processing (TSUSA 806.30)
(2) Product detail estimated by Aluminum Association from published ranges.
(3) Annual growth rate calculated by straight line least squares method

SOURCES: U.S. Department of Commerce, Bureau of The Census, Foreign Trade Division and CIR Series M33-2

Shipments

Net Shipments of Ingot and Mill Products
Excludes Mill Product Imports to Consumers 1954-1985

Millions of Pounds

Year	Total aluminum	Total ingot	Primary ingot	Secondary ingot[3][4]	Extusion ingot[5]	Total mill products	Sheet & Plate nonheat treatable	Sheet & Plate heat treatable	Foil	Forgings[2] Impacts[2]	
1954	3,006.8	920.2	425.7	494.5	—	2,086.6	768.2	243.6	153.3		
1955	3,997.2	1,205.4	509.9	695.5	—	2,791.8	1,049.6	295.0	198.2	70.3	
1956	4,109.3	1,223.5	520.1	703.4	—	2,885.8	1,050.6	327.0	190.5	75.7	
1957	3,839.2	1,161.6	458.2	703.4	—	2,677.6	943.8	248.7	204.0	64.3	
1958	3,571.1	974.0	368.6	605.4	—	2,597.1	944.4	209.1	199.6	50.8	
1959	4,961.1	1,575.0	751.4	803.4	20.2	3,386.1	1,284.6	231.3	252.6	53.8	
1960	4,657.7	1,608.6	852.3	665.2	91.1	3,049.1	1,203.4	184.8	249.0	50.1	
1961	4,881.7	1,536.6	690.7	701.9	144.0	3,345.1	1,256.3	237.0	270.6	56.4	
							Sheet		Plate		
							NHT	HT	NHT	HT	
1962	5,669.8	1,858.6	768.9	848.7	241.0	3,811.3	1,361.8	157.3	108.9	82.9	297.4	79.4	
1963	6,289.7	2,032.6	859.2	885.9	287.5	4,257.2	1,626.5	165.2	126.5	77.1	322.3	84.0	
1964	7,063.5	2,228.6	946.5	995.1	287.0	4,834.9	1,903.0	167.8	124.2	79.0	356.7	88.4	
1965	8,016.7	2,337.3	1,069.3	1,126.9	141.1	5,679.4	2,179.8	223.0	109.0	97.0	395.7	96.4	
1966	8,797.6	2,340.1	987.2	1,190.4	162.6	6,457.5	2,382.4	281.5	125.7	147.2	432.2	139.2	
1967	8,836.9	2,486.4	1,063.6	1,189.1	233.7	6,350.6	2,385.6	227.4	119.5	135.6	449.4	165.2	
1968	9,861.8	2,694.8	1,154.2	1,284.3	256.3	7,167.0	2,910.8	250.2	103.5	140.0	508.7	105.7	62.1
1969	10,717.5	3,051.2	1,569.4	1,264.9	216.9	7,666.3	3,299.3	200.8	105.8	120.9	559.9	97.3	59.3
1970	9,952.5	2,594.5	1,307.0	1,126.0	161.5	7,358.0	3,376.4	126.7	94.1	91.4	558.7	71.4	49.0
1971	10,267.3	2,428.5	1,004.5	1,187.7	236.3	7,838.8	3,691.1	121.6	75.6	87.8	585.6	69.5	28.7
1972	11,880.0	2,633.8	1,000.7	1,467.9	165.2	9,246.2	4,431.4	166.6	78.8	97.1	673.2	95.3	27.5
1973	14,568.2	3,668.4	1,615.7	1,757.8	294.9	10,899.9	5,308.7	203.3	109.7	119.6	774.4	114.8	27.6
1974	13,639.5	3,178.4	1,503.5	1,457.4	217.4	10,461.1	5,087.9	216.5	157.2	164.6	748.2	112.8	25.5
1975	9,804.2	2,377.7	1,275.0	1,019.1	83.5	7,426.6	3,676.8	121.0	143.2	111.2	611.8	82.8	14.4
1976	12,245.6	2,540.1	1,108.5	1,227.6	203.9	9,705.6	5,167.0	191.9	108.4	106.5	772.3	83.1	17.1
1977	12,831.3	2,388.3	768.5	1,443.6	176.2	10,443.0	5,505.5	300.4	104.2	130.3	805.6	105.7	15.6
1978	14,018.4	2,672.3	923.3	1,658.7	90.3	11,346.0	5,785.4	350.6	116.1	157.1	876.6	115.7	20.7
1979	14,517.3	3,287.0	1,281.2	1,830.7	175.1	11,230.3	5,632.4	365.4	114.9	183.5	887.0	127.4	31.4
1980	14,208.7	3,723.8	1,958.3	1,582.1	183.5	10,484.9	5,301.8	247.3	92.2	220.9	830.4	107.2	26.0
1981	13,574.2	3,236.4	1,485.3	1,704.5	46.6	10,337.8	5,504.0	200.9	109.1	167.1	850.4	109.2	29.8
1982	12,117.2	3,090.3	1,508.0	1,517.3	65.1	9,026.8	4,976.9	150.1	70.9	131.2	731.2	78.9	25.3
1983	13,622.4	3,044.8	1,438.5	1,499.2	107.2	10,577.5	5,952.4	181.0	57.5	145.4	826.4	88.6	27.6
1984	14,655.4r	3,579.5r	1,782.6r	1,768.2	28.7r	11,075.9r	5,866.5r	221.2	81.5	173.4	852.7	114.9	29.3
1985	14,462.0	3,370.5		3,154.6	215.9	11,091.5	5,964.3	220.1	74.4	183.4	812.8	108.3	40.4

(1) A small amount of rolled structural shapes is included with the rod & bar in 1946-1961 and with extruded shapes in subsequent years.

(2) Through 1954 forgings and impacts were not reported. They were included in appropriate forging stock product categories, mainly rolled rod & bar instead of forgings.

(3) 1952-1958 Secondary ingot included extrusion ingot.

(4) Secondary ingot includes shipments by integrated companies, secondary smelters and imports.

Detail may not add to totals due to rounding.

Millions of Pounds

Rod & bar[1]	Extruded Shapes: Soft alloys	Extruded Shapes: Hard alloys	Tubing: Soft alloys	Tubing: Hard alloys	Wire bare: Non Conductor	Wire bare: Conductor	ACSR & bare cable	Ins. or cov. wire & cable	Powder and Paste
143.7	385.8	63.8	53.5	10.1	41.8	3.8	147.1	25.0	46.9
			Drawn tube	Welded tube					
109.9	636.6	45.8	67.2	25.5	57.7	4.0	156.9	39.5	35.7
117.8	641.0	63.5	60.2	27.6	54.4	5.5	187.4	56.1	28.4
					Wire, bare				
116.9	645.6	61.2	56.2	26.7	50.4		181.5	50.3	28.2
75.6	693.5	49.8	59.8	18.7	44.2		174.8	51.0	25.6
124.6	931.3	47.9	72.9	30.0	64.6		196.7	60.8	34.9
92.9	812.1	38.9	60.3	25.9	55.4		183.1	60.4	32.8
100.8	884.1	50.5	64.0	35.4	52.6		232.8	66.6	35.9

Extruded rod & bar: Soft	Extruded rod & bar: Hard	Extruded shapes[1]: Soft	Extruded shapes[1]: Hard	Extruded pipe & tube: Soft	Extruded pipe & tube: Hard						
136.4	54.8	12.6	782.4	44.8	139.5	5.2	78.4	40.7	55.0	253.2	76.9	43.7
121.0	61.1	10.2	870.7	54.2	150.3	6.1	65.5	52.1	57.6	272.3	89.2	44.8
							Drawn tube					
							Soft	Hard				
146.8	70.5	12.6	1,016.4	41.0	158.2	4.3	60.3	6.6	77.4	63.1	309.2	103.2	46.3
159.7	68.2	14.8	1,224.3	57.5	174.9	2.7	78.8	3.7	93.7	82.6	429.3	129.4	58.8
151.9	67.2	21.5	1,335.3	97.7	190.6	6.9	92.2	7.5	91.2	103.2	507.4	165.3	111.4
143.0	43.6	18.4	1,222.7	84.5	157.4	8.5	81.7	7.5	87.8	97.7	506.2	174.7	234.0
130.0	37.3	21.1	1,363.0	70.0	170.2	11.8	84.6	8.0	106.9	100.4	492.2	214.0	276.4
144.3	42.2	21.1	1,460.2	72.3	196.1		81.8	7.2	101.6	94.7	475.1	250.5	276.0
110.0	39.7	16.8	1,369.2	43.4	176.9		80.7	3.5	92.5	93.5	499.5	269.2	204.5
102.2	37.7	16.4	1,550.6	42.1	186.1		81.6	2.7	96.3	96.8	481.8	317.1	167.5
181.5	40.5	16.6	1,838.4	44.6	193.8		89.1	3.7	116.6	106.6	453.6	371.0	226.4
289.4	48.3	18.9	2,038.6	72.2	225.6		105.7	4.6	121.7	124.1	490.2	445.2	257.4
268.6	48.8	14.9	1,807.3	66.4	219.4		110.4		116.8	131.0	541.4	446.3	177.2
185.8	55.7	12.1	1,264.3	47.7	135.9		65.7		61.6	66.3	425.1	246.3	98.9
279.9[6]	69.9		1,661.8	28.9	188.8		98.0		94.2	79.9[6]	321.4	304.1	132.4
145.5[6]	82.5		1,845.5	65.4	183.8		104.3		114.5	85.3[6]	351.0	376.7	121.1[7]
266.5	113.7		2,021.9	93.2	176.8		106.7		110.4	89.3	390.3	419.6	135.9
300.0	100.9		1,990.1	104.2	151.9		95.9		83.5	91.3	417.4	427.5	125.6
377.6	113.0		1,791.2	107.3	140.7		80.7		96.8	72.2	399.8	363.2	116.6
272.0	102.9		1,732.9	69.9	127.3r		74.6		114.2	68.3	378.7	321.6r	107.7
190.4	74.5	19.4	1,568.1	48.2	89.5	11.4	60.9		47.9	50.8	345.2	276.0	80.0
187.1	89.2	25.4	1,859.5	55.2	122.2	14.3	65.2		56.4	54.9	357.4	333.3	78.7
201.2	91.8r	31.0	2,138.8r	88.0	154.1r	22.6	56.4		59.9	54.3	346.0	393.8	98.7

Drawing Stock	Rod & bar rolled or extruded: Soft	Rod & bar rolled or extruded: Hard			Pipe & tube extruded or drawn: Soft	Pipe & tube extruded or drawn: Hard					
27.2	81.3	110.0	2,285.7	67.5	238.6	10.6	(8)	86.2	277.0	396.2	107.3

(5) Extrusion ingot includes primary and secondary metal shipments by integrated companies, non-integrated companies, secondary smelters and imports includes exports and overstated domestic shipments due to insufficient reporting of receipts.
(6) Bare wire estimated by the Aluminum Association from part year reporting.
(7) Powder, n.e.c., included for only nine months of 1976 and excluded entirely for 1977.
(8) Welded tube included with alumnun sheet.

SOURCE: U.S. Department of Commerce, Bureau of The Census, Industry and Trade Administration, Bureau of Domestic Business Development, Office of Basic Industries—Current Industrial Reports since 1960: Facts for Industry 1959 and earlier.

General Line Distributor Shipments

DISTRIBUTOR SHARE 31.1 PERCENT

During 1985 distributors captured 31.1 percent of their available market. Total U.S. shipments of Mill products, excluding direct mill uses, was 4,487 million pounds down 2.3 percent from 1984. Distributor shipments at an estimated 1,396 million pounds were down 1.1 percent from a year ago.

DESCRIPTION:

The table shows general line distributor shipments as estimated by the Management Information Committee of the National Association of Aluminum Distributors for the years 1975-1985. Also shown are estimates of the total market in which general line distributors are participants. This is labeled Total U.S. Shipments, excluding Direct Mill Uses.

For information on years prior to 1975, see the Aluminum Statistical Review—Historical Supplement.

Direct mill uses are excluded because these end product manufacturers do not buy from distributors. In some cases producers make the final products. These uses include residential siding, extruded shapes for all building products, furniture tube, conduit, irrigation pipe, can stock and exports. Total U.S. shipments excluding direct mill uses thus differ from total aluminum industry shipments of mill products by the amount of direct mill uses and products not generally handled by general line distributors (foil, conductor, forgings, powder).

General Line Distributor Shipments 1975-1985

Millions of pounds

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Distributor Shipments											
Total	1,396	1,411	1,285	948	1,200	1,274	1,359	1,319	1,212	1,148	753
Sheet	907	938	861	598	778	747	816	812	758	753	435
Plate	152	146	119	104	120	155	152	138	112	92	77
Rod, bar & wire	143	134	131	106	140	161	176	161	137	116	85
Extruded shapes	140	132	121	94	107	151	149	138	136	121	105
Pipe & tube	54	61	53	46	55	60	66	70	69	66	51
Total U.S. Shipments excluding Direct Mill Uses											
Total	4,487	4,591r	4,120	3,170	3,835	3,832	4,327	5,095	4,442	4,158	2,903
Sheet	2,773	2,865r	2,783	2,056	2,484	2,302	2,598	3,359	3,013	2,772	1,842
Plate	273	256	190	189	240	266	281	253	215	196	210
Rod, bar & wire	318	384	331	275	331	379	407	398	286	376	257
Extruded shapes	914	890r	675	563	632	710	859	864	741	662	487
Pipe & tube	209	196r	141	87	148	175	182	221	187	152	107
Distributor share (per cent)											
Total	31.1	30.7r	31.2	29.9	31.3	33.3	31.4	25.9	27.3	27.6	25.9
Sheet	32.7	32.7r	30.9	29.1	31.3	32.5	31.4	24.2	25.2	27.2	23.6
Plate	55.7	57.0	62.6	55.0	50.0	58.3	54.1	54.5	52.1	46.9	36.7
Rod, bar & wire	45.0	34.9	39.6	38.6	42.3	42.5	43.2	40.4	47.9	30.9	33.1
Extruded shapes	15.3	14.8r	17.9	16.7	16.9	21.3	17.4	16.0	18.4	18.3	21.6
Pipe & tube	25.8	31.1r	37.6	52.9	37.2	34.3	36.3	31.7	36.9	43.4	47.7

NOTE: In this table rod, bar and wire includes extruded rod and bar; pipe and tube includes extruded, drawn and welded pipe and tube.
SOURCE: Estimated by the Management Information Committee of the National Association of Aluminum Distributors.

Shipments of Castings

SHIPMENTS UP 1.3 PERCENT

There were 2,212 million pounds shipped during 1985 versus the prior year's 2,184 million pounds. Of the total shipments, die castings accounted for 69 percent (69 percent in 1984), permanent mold castings, 16 percent (16 percent in 1984), sand castings, 10 percent (9 percent in 1984) and other castings, 6 percent (6 percent in 1984). Shipments for sale represented 92 percent of sand castings, 71 percent of permanent mold castings and 66 percent of die castings.

This table shows shipments of aluminum castings separately for sand, permanent mold and die castings, both for sale and own use. Own use shipments are for captive consumption in the producers' end products.

Ingot requirements for the castings shipments shown in this table are part of the net ingot shipments shown on page 5 & 6

Shipments of Castings 1963-1985

Millions of Pounds

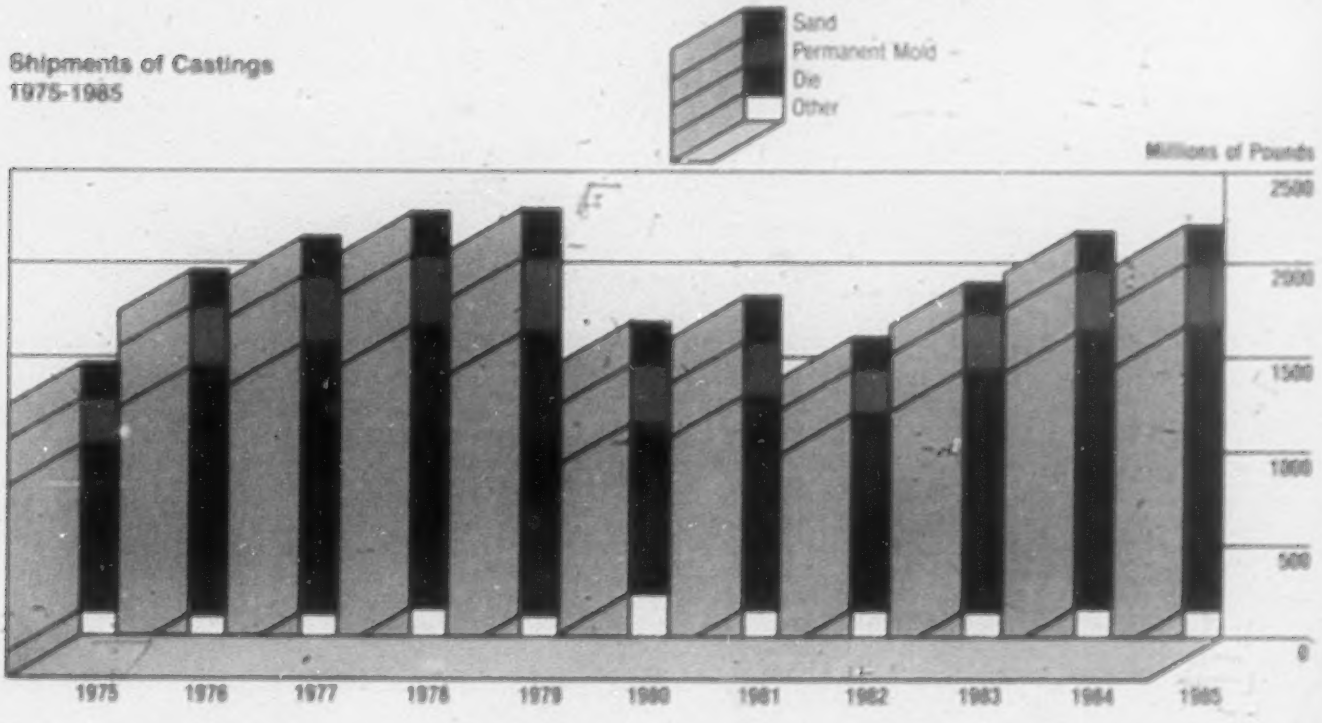
Year*	Total Castings(1)	Sand Castings		Permanent and Semi-permanent Mold Castings		Die Castings	
		for sale	own use	for sale	own use	for sale	own use
1963	1,209.3	160.1	42.1	169.6	159.3	281.2	390.4
1964	1,257.2	168.9	60.6	179.3	137.4	312.6	386.3
1965	1,416.7	193.6	72.7	185.2	134.8	391.3	431.7
1966	1,654.1	220.6	68.0	233.3	156.1	478.7	477.8
1967	1,488.7	155.3	74.1	203.6	126.8	472.2	434.7
1968	1,615.2	148.9	58.7	201.5	158.7	548.5	518.3
1969	1,731.0	155.8	59.5	246.5	160.0	510.9	573.7
1970	1,541.9	127.0	65.5	168.7	132.3	472.3	530.7
1971	1,616.8	122.7	82.4	200.2	118.9	500.5	595.8
1972	1,915.6	158.8	62.4	236.6	143.8	595.8	665.8
1973	2,113.2	184.1	65.9	247.6	147.8	680.0	735.4
1974	1,855.4	200.4	58.1	220.1	114.6	617.3	585.5
1975	1,455.2	146.5	42.9	159.7	90.7	461.4	496.1
1976	1,971.1	170.3	41.3	203.4	121.8	606.5	721.7
1977	2,153.4	186.6	33.3	228.0	145.2	682.6	763.0
1978	2,286.6	210.9	34.9	238.5	148.6	799.8	718.1
1979	2,302.8	245.5	33.2	265.4	142.2	853.1	663.6
1980	1,689.6	200.0	33.1	217.2	105.9	633.8	479.2
1981	1,819.8	2[illegible]	0.6	209.2	82.3	704.1	652.7
1982	1,605.3	15[illegible]	1.2r	181.9	77.2	624.2	434.0
1983	1,898.1r	156.3r	0.2r	211.8r	90.5r	812.9r	493.3r
1984	2,183.6r	185.6r	12.0r	257.2r	96.7r	923.3r	574.0r
1985	2,211.6	196.7	17.0	246.0	98.6	1,006.0	518.2

(1) Total includes small amounts of "other" castings not shown separately.

SOURCE: U.S. Department of Commerce, Bureau of the Census, Industry Division

*Prior to 1963 consult the Aluminum Statistical Review—Historical Supplement

Shipments of Castings 1975-1985



Market Shipment Highlights—1984

SHIPMENTS DOWN 1.6 PERCENT
Total industry shipments of aluminum in 1985 declined to level of 15,278 million pounds, down 1.6 percent from the volume of 15,521 million pounds in 1984. Total domestic shipments declined 2.6 percent while exports increased 11.9 percent.

The largest increase occurred in the area of Building and Construction, up 6.2% from 1984.

Containers and Packaging continues as the industry's largest market in 1985 with a volume of 4,108 million pounds, or 26.9 percent of total shipments. Increased shipments for metal cans at 3,381 million pounds led this market's 1.9 percent growth over 1984. Semi-rigid food containers household and institutional foil, caps & closures, collapsible tubes and many flexible packaging uses are other important components in this market.

Building and Construction, at 3,044 million pounds, increased 6.2 percent from a 1984 volume of 2,866 million pounds. Included in this market are residential, industrial, commercial, farm and highway applications as well as mobile homes.

Shipments to the **Transportation** market decreased to a volume of 3,006 million pounds, 0.8 percent less than in 1984. Included in this market are passenger cars, trucks and buses, trailers and semitrailers and recreational vehicles.

Electrical market applications showed a 5.7 percent decline to 1,416 million pound volume in 1985. Wire and cable products fell 8.4 percent.

Shipments to the **Consumer Durable** goods market experienced a 5.0 percent decrease to a volume of 1,051 million pounds. Uses such as appliances, and air conditioning, showed increases.

Shipments to the nonelectrical **Machinery and Equipment** market of 832 million pounds were constant with 1984 levels and accounted for 5.4 percent of the total. Uses include agricultural, construction and industrial machinery, irrigation pipe, ladders, fasteners and other general industrial equipment.

Exports of aluminum totaling 1,204 million pounds increased 11.9 percent above 1984 levels and accounted for 7.9 percent of total shipments.

The **average annual growth rate*** for aluminum shipments in the 1975-1985 period was 2.5 percent.

DESCRIPTION:
The Statistical Task Group of the Aluminum Association, Inc. has developed an annual breakdown of total aluminum industry shipments by major market since 1960. End use data on U.S. aluminum shipments are not available from government sources on a regular basis. Aluminum consumption figures for some industries are published by the U.S. Department of Commerce in the Census of Manufacturers. The most recent such Census covers the year 1982.

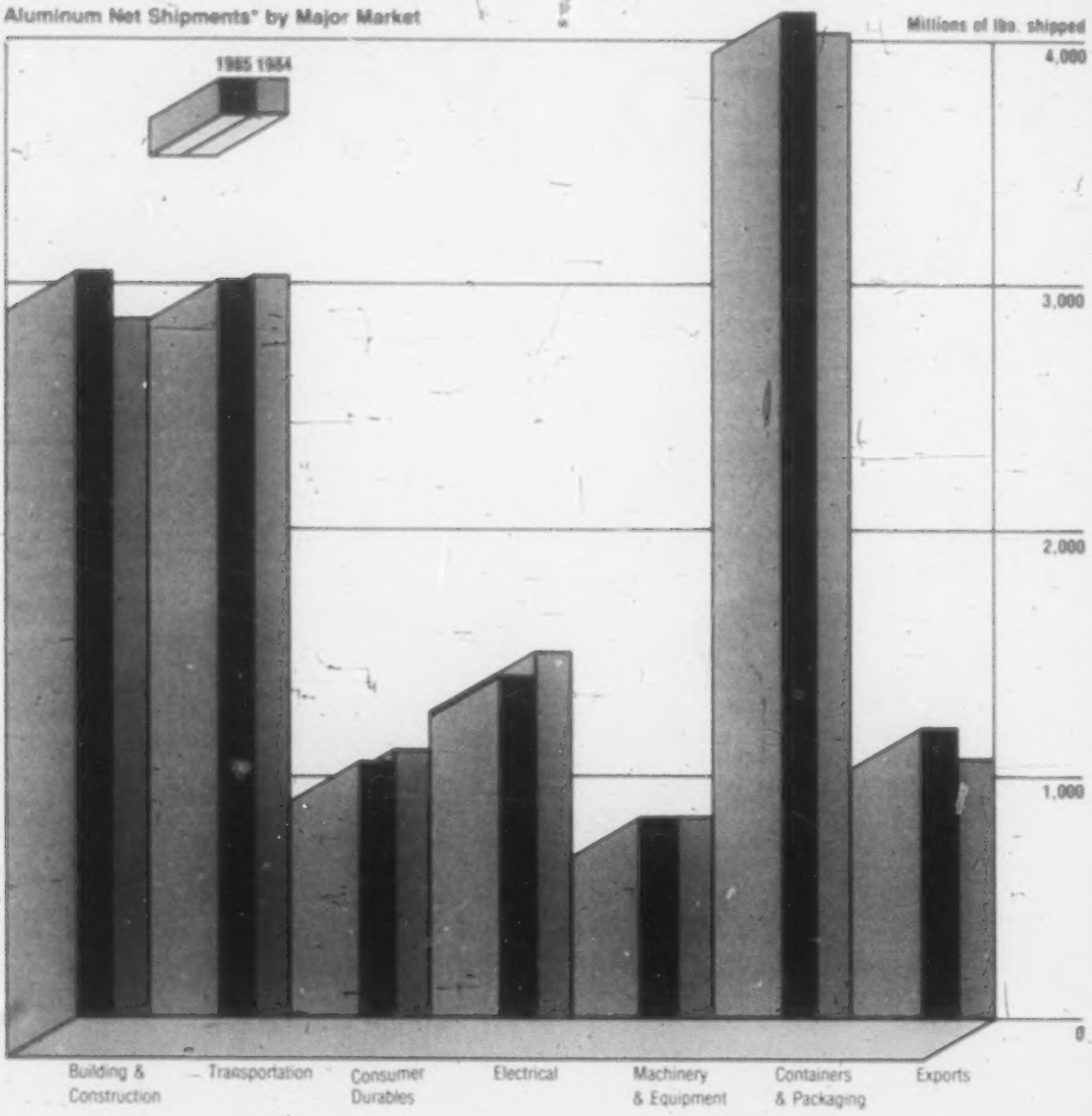
In the United States the aluminum industry has identified its major markets as building and construction, transportation, consumer durables, electrical, machinery and equipment, containers and packaging, exports and other end uses. Each of these major markets has a wide range of end uses within it.

Tables on pages 13-17 show considerable detail on the major markets for 1975-1985. Page 20 also depict trends for 1975-1985 in selected important aluminum uses.

For information on years prior to 1975 see the Aluminum Statistical Review—Historical Supplement.

(*) Annual growth rate calculated by straight line least squares method

Aluminum Net Shipments* by Major Market



Shipments by Major Market

Major Market	1985 % Distribution	1985 Amount	1984 % Distribution	1984 Amount	1985-1984 % Change	1975-1985 % Annual Growth [3]
Building & construction	19.9	3,044	18.5	2,866r	+6.2	+0.5
Transportation	19.7	3,006	19.5	3,031r	−0.8	+1.2
Consumer durables	6.9	1,051	7.1	1,106	−5.0	+0.7
Electrical	9.3	1,416	9.7	1,502r	−5.7	+0.5
Machinery & equipment	5.4	832	5.4	832r	—	−0.7
Containers & packaging	26.9	4,108	26.0	4,031r	+1.9	+5.7
Other (inc. statistical adjustment)**	4.0	617	6.9	1,077r	−42.7	+6.8
Domestic, total	92.1	14,074	93.1	14,445r	−2.6	+2.3
Exports	7.9	1,204	6.9	1,076	+11.9	+4.8
INDUSTRY TOTAL	100.0	15,278	100.0	15,521r	−1.6	+2.5

N.A. Not applicable

r — Revised

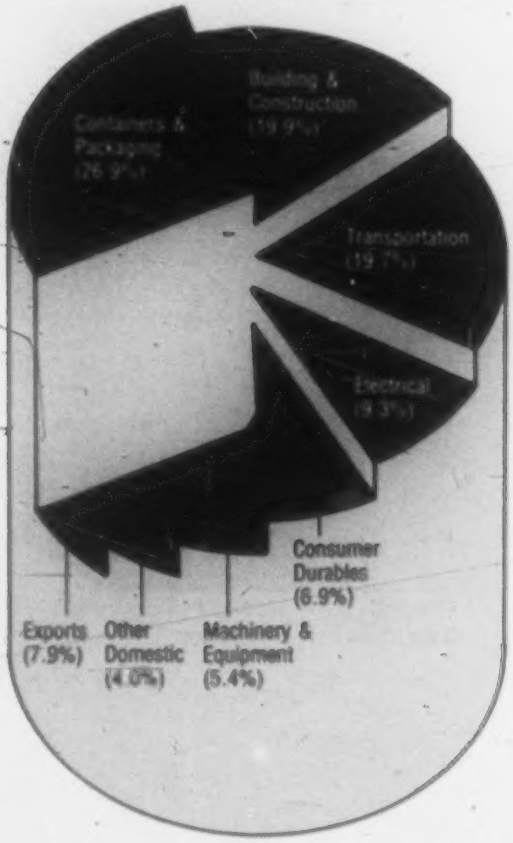
* "Net Shipments" exclude intra-industry shipments for further fabrication. It is the most accurate measure of industry output to markets because it eliminates duplication. Reported receipts of aluminum for further processing are eliminated.

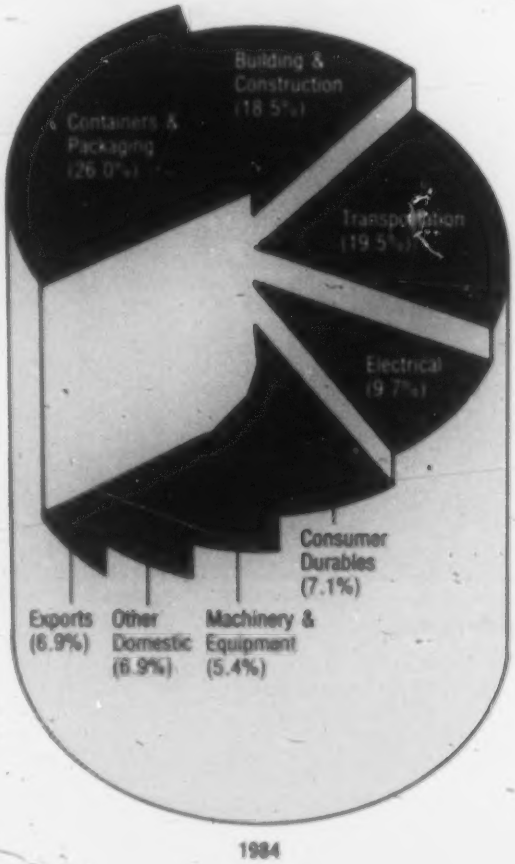
** "Statistical Adjustment" accounts for net shipments of aluminum reported by the Bureau of the Census which the Aluminum Association believes were either over or understated in the amounts indicated due to excessive or insufficient reporting. It also includes otherwise unpublished Census revisions. The addition of the statistical adjustments reconciles the amounts reported by the Bureau of the Census with the net shipments that the Aluminum Association feels are more correct.

[3] Annual growth rate calculated by straight line least squares method.

SOURCE: Estimated by the Statistics Task Group of the Aluminum Association, Inc.

Distribution of Aluminum Net Shipments* by Major Market





Product Net Shipments* by Major Market
1975-1985

Millions of pounds

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Total Aluminum											
Building & construction	3,044	2,666r	2,870	2,257	2,553	2,624	3,058	3,226	3,010	2,824	2,225
Transportation	3,006	3,031r	2,427r	1,836	2,204	2,247	3,120	3,157	2,913	2,476	1,709
Consumer durables	1,051	1,106	1,054	822	1,000	892	1,055	1,205	1,077	1,047	756
Electrical	1,416	1,502r	1,298	1,157	1,351	1,405	1,588	1,502	1,362	1,274	1,216
Machinery & equipment	832	832r	779	704	881	844	985	1,056	928	906	648
Containers & packaging	4,108	4,031r	3,918	3,568	3,512	3,334	3,223	3,141	2,780	2,585	2,014
Other	583	614r	576	526	645	600	652	660	597	592	544
**Statistical adjustment	+34	+463r	−10r	+340	+298	+212	+163	−289	−394	−100	+12
Domestic, total	14,074	14,445r	12,912	11,210	12,444	12,158	13,844	13,678	12,273	11,604	9,124
Exports	1,204	1,076	1,241	1,295	1,370	2,193	1,023	747	713	821	805
Aluminum Total	15,278	15,521r	14,153	12,505	13,814	14,351	14,867	14,425	12,986	12,425	9,929
Ingot (1)											
Building & construction	105	102	91	86	90	86	114	109	110	104	164
Transportation	1,372	1,368r	1,172r	888	1,017	960	1,349	1,311	1,260	1,149	829
Consumer durables	301	301	275	259	291	265	350	374	351	343	257
Electrical	196	196	170	165	190	176	224	213	198	188	220
Machinery & equipment	295	290	256	249	293	274	354	363	311	299	231
Containers & packaging	12	18	20	15	22	20	15	11	9	12	10
Other	255	258r	248	227	313	294	343	344	312	311	289
**Statistical adjustment	+48	+452r	−r	+384	+314	+204	+119	−306	−367	−178	—
Domestic, total	2,584	2,985r	2,132	2,273	2,530	2,279	2,868	2,419	2,184	2,228	2,000
Exports	786	594	813	817	706	1,445	419	253	204	312	378
Ingot Total	3,370	3,579r	3,045	3,090	3,236	3,724	3,287	2,672	2,388	2,540	2,378
Mill Products											
Building & construction	2,939	2,764r	2,779	2,171	2,463	2,538	2,944	3,117	2,900	2,720	2,061
Transportation	1,634	1,663r	1,255	948	1,187	1,287	1,771	1,846	1,653	1,327	880
Consumer durables	750	805	779	563	709	627	705	831	726	704	499
Electrical	1,220	1,306r	1,128	992	1,161	1,229	1,364	1,289	1,164	1,086	996
Machinery & equipment	537	542r	523	455	588	570	631	693	617	607	417
Containers & packaging	4,096	4,013r	3,898	3,553	3,490	3,314	3,208	3,130	2,771	2,573	2,004
Other	328	356r	328	299	332	306	309	316	285	281	255
**Statistical adjustment	−14	+11r	−10	−44	−16	+8	+44	+37	−27	+78	+12
Domestic, total	11,490	11,460r	10,680	8,937	9,914	9,879	10,976	11,259	10,089	9,376	7,124
Exports	418	482	428	478	664	748	604	494	509	509	427
Mill Products Total	11,908	11,942r	11,108	9,415	10,578	10,627	11,580	11,753	10,598	9,885	7,551

NOTE: Total mill products are net shipments of aluminum mill products as reported by domestic producers to the U.S. Department of Commerce, plus imported mill products, less receipts of these imports by domestic producers.

Footnotes: See page 17.

Product Net Shipments* by Major Market

Product Net Shipments* by Major Market 1975-1985

Millions of Pounds

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Sheet											
Building & construction	1,365	1,295	1,424	1,022	1,190	1,250	1,597	1,749	1,611	1,582	1,147
Transportation	676	720	567	386	499	499	824	932	865	669	352
Consumer durables	403	411	437	295	380	333	353	424	375	387	287
Electrical	243	264	218	186	242	199	243	239	229	214	131
Machinery & equipment	288	285	285	229	282	258	267	313	265	249	155
Containers & packaging	3,509	3,395	3,275	2,977	2,869	2,693	2,559	2,488	2,169	1,971	1,501
Other	66	80r	82	65	74	64	74	82	64	58	61
**Statistical adjustment	−24	−10r	+15	+15	−4	−11	+11	+8	+28	+50	+38
Domestic, total	6,526	6,440r	6,303	5,175	5,532	5,285	5,928	6,235	5,606	5,180	3,672
Exports	303	373	296	296	368	375	374	265	323	322	230
Sheet Total (4)	6,829	6,813r	6,599	5,471	5,900	5,660	6,302	6,500	5,929	5,502	3,902
Plate											
Building & construction	1	1	1	1	1	1	1	1	1	1	1
Transportation	238	224r	155	151	179	216	220	190	160	146	161
Consumer durables	1	1	1	1	1	1	1	1	1	1	1
Electrical	4	4	4	4	18	5	10	10	7	6	10
Machinery & equipment	18	21r	16	18	29	30	37	41	35	32	28
Containers & packaging	—	—	—	—	—	—	—	—	—	—	—
Other	16	13	13	14	12	13	12	10	11	10	9
**Statistical adjustment	−5	−8r	—	—	—	—	—	—	—	—	—
Domestic, total	273	256	190	189	240	266	281	253	215	196	210
Exports	26	30	23	27	43	51	30	27	21	21	46
Plate Total	299	286	213	216	283	317	311	280	236	217	256
Foil											
Building & construction	43	38	38	26	35	29	38	37	33	25	21
Transportation	52	49	45	29	32	31	41	45	38	25	16
Consumer durables	115	134	106	77	112	84	112	122	95	83	39
Electrical	13	20	22	19	25	23	30	27	25	23	14
Machinery & equipment	15	17	16	14	17	16	20	21	14	15	12
Containers & packaging	583	613r	613	570	614	614	640	633	597	597	501
Other	7	7	5	3	8	5	3	1	1	2	4
**Statistical adjustment	+25	+7r	—	—	—	—	—	—	—	—	—
Domestic, total	853	885	845	738	843	802	884	886	803	770	607
Exports	12	12	11	13	21	38	21	12	13	14	10
Foil Total	865	897	856	751	864	840	905	898	816	784	617
Extruded Shapes											
Building & construction	1,432	1,334r	1,233	1,045	1,163	1,176	1,215	1,235	1,163	1,019	812
Transportation	470	479r	345	270	325	390	499	491	427	350	234
Consumer durables	151	134	103	79	88	96	117	133	106	94	70
Electrical	119	110r	74	71	76	88	106	101	89	94	78
Machinery & equipment	106	90r	75	71	80	88	108	115	88	81	72
Containers & packaging	—	1	3	—	—	—	1	—	—	—	—
Other	68	76	75	72	63	37	28	24	31	43	33
**Statistical adjustment	—	—	—	—	—	—	—	—	—	—	—
Domestic, total	2,346	2,224r	1,908	1,608	1,795	1,875	2,074	2,099	1,904	1,681	1,299
Exports	16	11	10	9	9	25	22	17	9	10	14
Extruded Shapes Total	2,362	2,235r	1,918	1,617	1,804	1,900	2,096	2,116	1,913	1,691	1,313

Product Net Shipments* by Major Market
1975-1985

Millions of Pounds

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Extruded Pipe & Tube											
Building & construction	37	33	25	31	23	23	31	29	31	33	27
Transportation	49	35	26	16	20	16	18	24	21	18	14
Consumer durables	56	44	31	25	22	24	21	28	22	18	13
Electrical	89	67	59	49	51	62	37	41	44	46	35
Machinery & equipment	29	15	14	16	21	26	29	35	45	53	31
Containers & packaging	—	—	—	—	—	—	—	—	—	—	—
Other	8	7	6	3	4	4	2	2	2	3	3
**Statistical adjustment	−22	−24r	−30	−50	−27	−29	—	—	—	—	—
Domestic, total	246	177r	131	90	114	126	138	159	165	171	123
Exports	10	9	9	12	14	15	15	18	20	19	14
Extruded Pipe & Tube Total (3)	256	186r	140	102r	128	141	153	177	185	190	137
Drawn Tube											
Building & construction		3	3	2	3	3	3	3	4	3	3
Transportation		9	6	5	8	11	17	18	17	15	10
Consumer durables		17	22	21	28	28	34	40	40	41	26
Electrical		8	9	9	9	10	10	13	13	13	10
Machinery & equipment		14	17	17	19	20	21	21	20	23	13
Containers & packaging		—	—	—	—	—	—	1	—	—	—
Other		4	7	6	7	8	10	10	9	2	3
**Statistical adjustment		—	—	—	—	—	—	—	—	—	—
Domestic, total		55	64	60	74	80	95	106	103	97	65
Exports		1	1	1	1	1	1	1	1	1	1
Drawn Tube Total	(3)	56	65	61	75	81	96	107	104	98	66
Welded Tube											
Building & construction		1	1	1	2	2	2	3	2	2	2
Transportation		—	—	—	1	1	1	3	2	1	1
Consumer durables		38	52	45	54	36	41	58	62	53	40
Electrical		2	3	3	4	4	4	5	5	6	4
Machinery & equipment		15	14	13	46	41	44	47	69	81	52
Containers & packaging		—	—	—	—	—	—	—	—	—	—
Other		1	1	1	3	2	2	2	2	1	1
**Statistical adjustment		+3	−15	−15	+4	+11	−11	−8	−28	−50	−38
Domestic, total		60	56	48	114	97	83	110	114	94	62
Exports		—	—	—	—	—	—		—	—	—
Welded Tube Total	(4)	60	56	48	114	97	83	110	114	94	62
Rod & Bar (2)											
Building & construction	22	27	25	23	25	29	29	33	28	29	25
Transportation	41	45	40	29	31	35	40	44	35	34	28
Consumer durables	13	15	17	11	13	15	15	16	14	14	11
Electrical	71	85	72	66	92	97	93	85	67	73	55
Machinery & equipment	52	53	54	46	52	51	53	52	41	39	31
Containers & packaging	—	—	—	—	—	1	1	—	—	—	—
Other	21	29	21	24	20	26	26	31	27	25	29
**Statistical adjustment	—	+55	+49	+34	+51	+109	+84	+68	—	+97	+30
Domestic, total	220	309	278	233	284	363	341	329	212	311	209
Exports	23	22	24	52	103	137	62	60	28	55	52
Rod & Bar Total	243	331	302	285	387	500	403	389	240	366	261

Footnotes: See page 17.

Product Net Shipments* by Major Market

Product Net Shipments* by Major Market 1975-1985

Millions of pounds

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Bare Wire											
Building & construction	39	31	28	19	20	24	27	26	26	25	22
Transportation	12	9	4	4	4	5	8	8	8	6	5
Consumer durables	6	5	5	4	5	5	6	6	8	10	9
Electrical	7	9	8	8	9	11	11	10	11	10	11
Machinery & equipment	14	15	16	16	22	21	28	29	24	22	14
Containers & packaging	4	4	7	6	7	6	7	8	5	5	2
Other	4	2	2	3	3	4	6	4	4	3	3
**Statistical adjustment	+12	—	−19	−18	−23	−60	−25	−22	−12	−16	−18
Domestic, total	98	75	51	42	47	16	68	69	74	65	48
Exports	9	6	10	12	25	58	30	24	15	19	21
Bare Wire Total	107	81	61	54	72	74	98	93	89	84	69
ACSR & Bare Cable											
Building & construction	—	—	—	—	—	—	—	—	—	—	—
Transportation	—	—	—	—	—	—	—	—	—	—	—
Consumer durables	—	—	—	—	—	—	—	—	—	—	—
Electrical	277	341	324	299	311	367	387	335	295	294	399
Machinery & equipment	—	—	—	—	—	—	—	—	—	—	—
Containers & packaging	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—	—	—	—	—
**Statistical adjustment	—	—	—	—	—	+8	—	—	—	—	—
Domestic, total	277	341	324	299	311	375	387	335	295	294	399
Exports	5	5	35	46	68	25	31	55	57	28	27
ACSR & Bare Cable Total	282	346	359	345	379	400	418	390	352	322	426
Insulated or Covered Wire & Cable											
Building & construction	—	—	—	—	—	—	—	—	—	—	—
Transportation	—	—	—	—	—	—	—	—	—	—	—
Consumer durables	—	—	—	—	—	—	—	—	—	—	—
Electrical	395	393	332	275	320	359	428	419	376	304	245
Machinery & equipment	—	—	—	—	—	—	—	—	—	—	—
Containers & packaging	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—	—	—	—	—
**Statistical adjustment	—	—	—	—	—	—	—	—	—	—	—
Domestic, total	395	393	332	275	320	359	428	419	376	304	245
Exports	1	1	1	1	2	4	—	1	1	—	1
Insulated Wire & Cable Total	396	394r	333	276	322	363	428	420	377	304	246
Forgings											
Building & construction	—	1	1	1	1	1	1	1	1	1	1
Transportation	89	87	62	53	82	79	98	85	76	57	54
Consumer durables	1	1	1	1	2	2	2	2	2	2	2
Electrical	—	1	1	1	1	1	1	1	1	1	2
Machinery & equipment	9	9	8	8	10	10	13	13	11	7	6
Containers & packaging	—	—	—	—	—	—	—	—	—	—	—
Other	17	12	13	12	10	11	8	9	9	12	14
**Stastical adjustment	−15	—	—	—	—	—	—	5	—	—	—
Domestic, total	101	111	86	76	106	104	123	116	100	80	79
Exports	7	4	3	3	3	3	4	—	6	3	4
Forgings Total	108	115	89	79	109	107	127	116	106	83	83

Product Net Shipments* by Major Market
1975-1985

Millions of pounds

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Ingots											
Building & construction	—	—	—	—	—	—	—	—	—	—	—
Transportation	7	6	5	5	6	4	5	6	4	6	5
Consumer durables	4	5	4	4	4	3	3	1	1	1	1
Electrical	2	2	2	2	3	3	4	3	2	2	2
Machinery & equipment	6	8	8	7	10	9	11	6	5	5	3
Containers & packaging	—	—	—	—	—	—	—	—	—	—	—
Other	6	8	9	7	7	7	8	5	3	3	3
**Statistical adjustment	+15	—	—	—	—	—	—	—	—	—	—
Domestic, total	40	29	28	25	30	26	31	21	15	17	14
Exports	—	—	—	—	—	—	—	—	—	—	—
Impacts Total	40	29	28	25	30	26	31	21	15	17	14
Powder & Paste											
Building & construction	—	—	—	—	—	—	—	—	—	—	—
Transportation	—	—	—	—	—	—	—	—	—	—	—
Consumer durables	—	—	—	—	—	—	—	—	—	—	—
Electrical	—	—	—	—	—	—	—	—	—	—	—
Machinery & equipment	—	—	—	—	—	—	—	—	—	—	—
Containers & packaging	—	—	—	—	—	—	—	—	—	—	—
Other	115	117	94	89	121	125	130	136	122	119	92
**Statistical adjustment	—	−12	−10	−10	−17	−20	−15	−14	−15	−3	—
Domestic, total	115	105	84	79	104	105	115	122	107	116	92
Exports	6	8	5	6	7	16	14	14	15	17	7
Powder & Paste Total	121	113	89	85	111	121	129	136	122	133	99

* "Net Shipments" exclude intra-industry shipments for further fabrication. It is the most accurate measure of industry output to markets because it eliminates duplication. Reported receipts of aluminum for further processing are eliminated.

** "Statistical Adjustment" accounts for net shipments of aluminum reported by the Bureau of the Census which the Aluminum Association believes were either over or understated in the amounts indicated due to excessive or insufficient reporting. It also includes otherwise unpublished Census revisions. The addition of the statistical adjustments reconciles the amounts reported by the Bureau of the Census with the net-shipments that the Aluminum Association feels are more correct.

r — Revised (NR) not reported by Census.

(1) Includes primary and secondary ingot for castings, destructive uses and exports.
(2) Extruded rod & bar combined with rolled and continuous cast rod & bar from 1972 to present.
(3) Drawn tube combined with extruded pipe and tube.
(4) Welded tube combined with sheet.

SOURCE: Estimated by the Statistics Task Group of the Aluminum Association, Inc.

Trends in Selected Markets

Trends in Selected Markets*
1975-1985

BUILDING & CONSTRUCTION — Millions of Pounds

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Windows, doors & screens, total	1,080	987r	949	748	845	851	903	957	916	817	670
Ingot	37	37	33	30	34	36	46	41	43	54	79
Total mill products	1,043	950r	916	718	811	815	857	916	873	763	591
Sheet	168	152	154	108	131	118	130	157	114	117	81
Plate	1	1	1	1	1	1	1	1	1	1	—
Extruded shapes	845	766r	733	585	651	665	695	725	727	618	488
Rod & Bar[1]	9	15	14	11	14	15	15	16	15	14	10
Bare wire	20	16	14	13	14	15	16	17	16	13	12
Awnings & Canopies, total	132	147	152	105	114	143	156r	177	145	137	93
Ingot	—	—	—	—	—	—	—	—	—	—	2
Total mill products	132	147	152	105	114	143	156	177	145	137	91
Sheet	111	122	130	86	93	121	131	150	122	117	73
Extruded shapes	19	22	19	16	18	19	21	23	19	16	14
Extruded pipe & tube[3]	2	1	1	1	1	1	2	2	2	2	2
Drawn tube[3]	—	1	1	1	1	1	1	1	1	1	1
Welded tube[4]	—	1	1	1	1	1	1	1	1	1	1
Residential siding, total	373	325	381	262	324	376	488	494	509	521	393
Sheet	372	324	380	261	323	375	487	493	508	519	390
Extruded shapes	1	1	1	1	1	1	1	1	1	2	3
Mobile homes, total	193	183	217	161	174	156	209	268	275	265	197
Ingot	5	5	5	4	4	3	5	5	5	5	7
Total mill products	188	178	212	157	170	153	204	263	270	260	190
Sheet	114	111	140	106	115	102	144	192	196	197	148
Extruded shapes	74	67	72	51	55	51	60	71	74	63	42
Bridge, street & highway, total	131	112	112	95	93	101	128	125	123	121	107
Ingot	16	16	14	13	12	12	16	15	16	16	19
Total mill products	115	96	98	82	81	89	112	110	107	105	88
Sheet	65	52	61	47	48	52	66	68	63	61	46
Foil	1	1	1	1	1	1	1	1	—	—	—
Extruded shapes	22	20	19	15	16	18	22	20	20	20	21
Pipe & tube[3]	25	22	16	18	15	17	22	20	23	23	19
Rod & bar[1]	2	1	1	1	1	1	1	1	1	1	2

Trends in Selected Markets*
1975-1985

TRANSPORTATION — Millions of pounds

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Trucks & buses, total	419	466	357	273	310	287	497	449	433	366	163
Ingot	200	212	183	151	148	136	216	199	191	169	88
Total mill products	219	254	174	122	162	151	281	250	242	197	75
Sheet	123	151	96	68	85	77	158	137	137	114	36
Plate	5	4	4	3	4	4	8	7	7	7	4
Foil	1	1	—	—	—	—	—	—	—	—	—
Rod & bar[1]	1	1	2	2	2	2	5	5	3	2	1
Extruded shapes	55	60	49	32	45	44	69	64	63	52	24
Extruded pipe & tube[3]	2	1	1	1	1	1	1	1	—	—	—
Drawn tube[3]	—	1	1	1	1	1	1	1	1	1	—
Bare wire	—	—	—	—	—	—	1	1	1	—	—
Forgings	31	34	20	14	23	21	37	33	29	20	9
Impacts	1	1	1	1	1	1	1	1	1	1	1
Passenger cars, total[2]	1,504	1,430r	1,279r	911	1,105	1,046	1,501	1,571	1,494	1,272	863
Ingot	1,066	1,056r	917r	662	781	746	1,008	1,003	967	886	648
Total mill products	438	434	362	249	324	300	493	568	527	386	215
Sheet	274	284	235	156	199	180	333	392	378	264	124
Plate	1	1	1	1	1	1	1	2	—	1	—
Foil	46	43	40	26	28	24	36	41	35	22	14
Rod & bar[1]	20	18	19	9	9	10	11	11	11	12	9
Extruded shapes	53	43	34	37	59	61	73	77	58	51	42
Extruded pipe & tube[3]	27	22	18	9	13	9	10	14	14	11	7
Drawn tube[3]	—	5	3	1	4	7	12	13	13	10	6
Bare wire	3	4	1	1	1	1	1	1	1	1	1
Forgings	12	12	10	8	8	6	14	14	14	9	8
Impacts	2	2	1	1	2	1	2	3	3	5	4
Trailers & semi-trailers, total	386	425r	301	174	211	243	388	425	366	280	144
Ingot	30	31	20	17	20	21	33	33	30	22	18
Total mill products	356	394r	281	157	191	222	355	392	336	258	126
Sheet	140	158	124	62	78	88	143	165	141	104	45
Plate	11	9	7	4	7	9	14	15	11	10	6
Rod & bar[1]	1	1	1	1	1	1	2	2	2	2	2
Extruded shapes	201	222r	147	88	103	122	194	208	179	140	71
Pipe & tube[3]	2	2	1	1	1	1	1	1	1	1	1
Bare wire	1	2	1	1	1	1	1	1	2	1	1
Forgings	—	—	—	—	—	—	—	—	—	—	—

Footnotes See page 20

Trends in Selected Markets

Trends in Selected Markets*
1975-1985

CONSUMER DURABLES — Millions of pounds

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Air conditioners, freezers, refrigerators, total	315	337	275	219	290	249	304	357	301	285	183
Ingot	53	32	30	25	33	29	38	39	35	32	26
Total mill products	282	305	245	194	257	220	266	318	266	253	157
Sheet	118	125	108	95	117	106	116	138	127	134	94
Foil	113	132	104	75	109	81	108	117	91	81	38
Extruded shapes	17	15	13	12	13	13	19	31	22	17	12
Extruded pipe & tube[2]	—	30	16	11	14	12	13	13	13	11	8
Drawn tube[3]	—	2	2	1	4	8	10	14	13	10	5
Portable appliances, total	47	53	55	44	59	56	70	76	58	58	47
Ingot	28	31	30	26	31	30	41	43	37	35	27
Total mill products	19	22	25	18	28	26	29	33	21	23	20
Sheet	16	18	21	14	23	22	24	27	16	18	16
Extruded shapes	2	2	2	3	3	2	2	2	2	2	2
Pipe & Tube[3]	1	1	1	1	1	1	2	3	3	3	2
Rod & bar[1]	—	1	1	—	1	1	1	1	—	—	—
Cooking utensils, total	150	175	206	136	171	161	152	171	138	163	135
Ingot	25	26	23	21	26	24	27	28	25	26	24
Total mill products	125	149	183	115	145	137	125	143	113	126	111
Sheet	121	144	177	109	140	132	121	139	109	122	108
Extruded shapes	3	4	4	4	4	4	3	3	3	3	2
Bare wire	1	1	1	1	1	1	1	1	1	1	1
CONTAINERS & PACKAGING											
Household & institutional foil, total	267	270	283	270	287	283	290	257	259	245	232
Metal cans total mill products	3,381	3,251	3,140	2,858	2,725	2,583	2,445	2,349	2,051	1,851	1,411
Sheet	3,381	3,251	3,140	2,858	2,725	2,583	2,445	2,349	2,051	1,851	1,411
Semi-rigid food containers Total mill products	160	173	158	134	153	160	159	176	168	166	150
Sheet	25	33	21	19	38	20	22	23	15	15	9
Foil	135	140	137	115	115	140	137	153	153	151	141

r — revised

** — These "selected markets" represent either those in which The Aluminum Association has marketing programs, or which are important aluminum market categories. They only account for a portion of aluminum shipments to each major market.*

(1) Extruded rod and bar combined with rolled and continuous cast and rod bar.

(2) Shipments to "Passenger Cars" cover new domestic automobile production, spare parts, accessories and after-market parts. Shipments for light trucks and vans are included in Trucks and Buses.

(3) Drawn tube combined with extruded pipe & tube.

(4) Welded tube combined with sheet.

NOTE: For information on years prior to 1975, see the Aluminum Statistical Review—Historical Supplement.

SOURCE: Estimated by the Statistics Task Group Committee of the Aluminum Association, Inc.

U.S. Aluminum Supply

The U.S. aluminum supply decreased 641,000 metric tons in 1985 to a total of 6,594,000 metric tons. This represents a 8.9 percent decline compared to the 1984 supply level. Primary production at 3,500,000 metric tons was down 14.6 percent from the 1984 production of 4,099,000 metric tons.

Primary imports of 1,332,000 metric tons were 3.2 percent less than the 1984 level of 1,376,000 metric tons. Imports of mill products decreased 6.3 percent to 463,000 metric tons during 1985 as compared to 494,000 metric tons in 1984.

Import data for both years reflect the reimports of metal exported for processing and returned to further processing in accordance with tariff arrangements under TSUSA 806.30 (Tariff Schedules of the United States Annotated).

Secondary recovery (domestic and imports) was 1,762,000 metric tons. The graph on page 22 illustrates the relative change in the portions of total aluminum supplies from each source for the years 1975 through 1985.

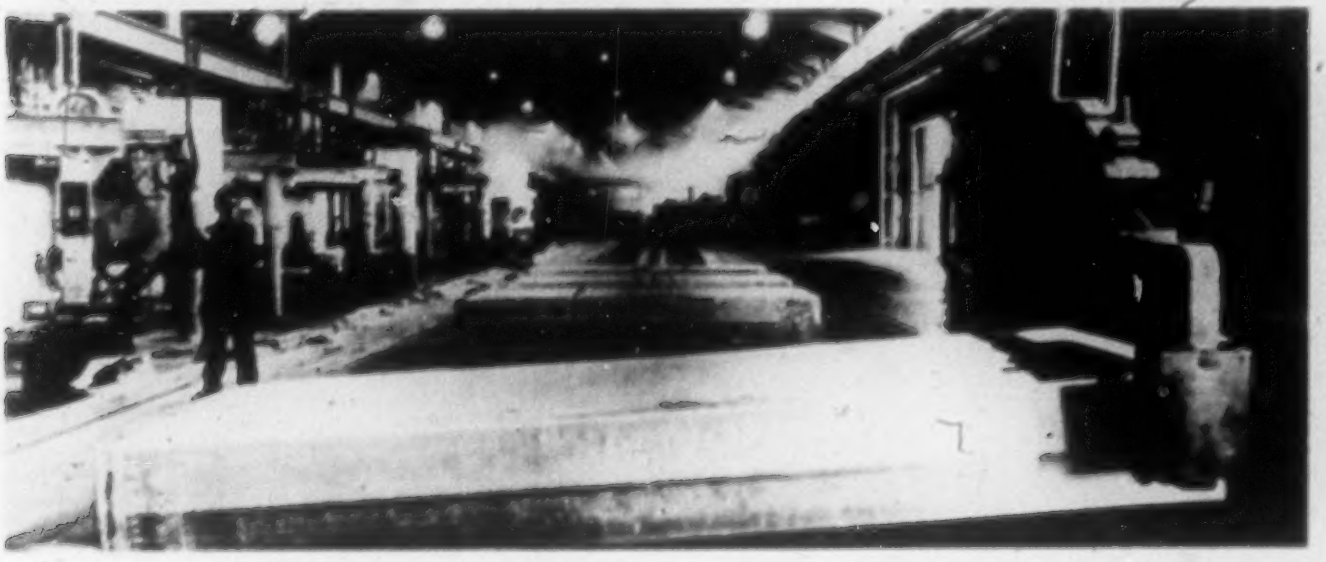
The table on page 23 details the total supply of aluminum and its principal sources for the years 1942 through 1985 before any adjustments for stockpile deliveries or withdrawals. The significance of the stockpile and its effect on total supply are described on page 24.

The growth of U.S. primary aluminum production over the past decade is outlined on the graph and detailed in the table on page 25.

Installed capacity by company is presented for the years 1975 through 1985 on page 26. The 1985 year-end primary aluminum capacity in the U.S. was 4,345,000 metric tons, down 14.7% from 1984.

Aluminum recovery from scrap is an important contributor to the total aluminum supply. Data showing the increase in this source of supply for the years 1946 through 1985 are presented on pages 30 and 31.

Aluminum ingots are produced in various shapes and sizes. This type, designed for use in rolling aluminum sheet and plate, can weigh as much as 30,000 pounds.



Total Supply

1985 SUPPLY DOWN 8.9 PERCENT

Total supply decreased 8.9 percent to 6,594,000 metric tons in 1985.

Changes vs. 1984

Primary production	-14.6%
Imports, Primary	-1.5%
Imports, Mill Products	-6.3%
Secondary Recovery	+0.1%

Since 1975 the total supply has expanded at an average rate of 1.6 percent a year, affected mostly by two recessions in this period. In 1985 primary production represented 53 percent of total supply; imports accounted for 20 percent; and secondary recovery represented 27 percent.

In the ten years 1975-1985, secondary recovery grew at a 3.6 percent annual rate, while primary reduction decreased at a 0.8 percent annual rate.

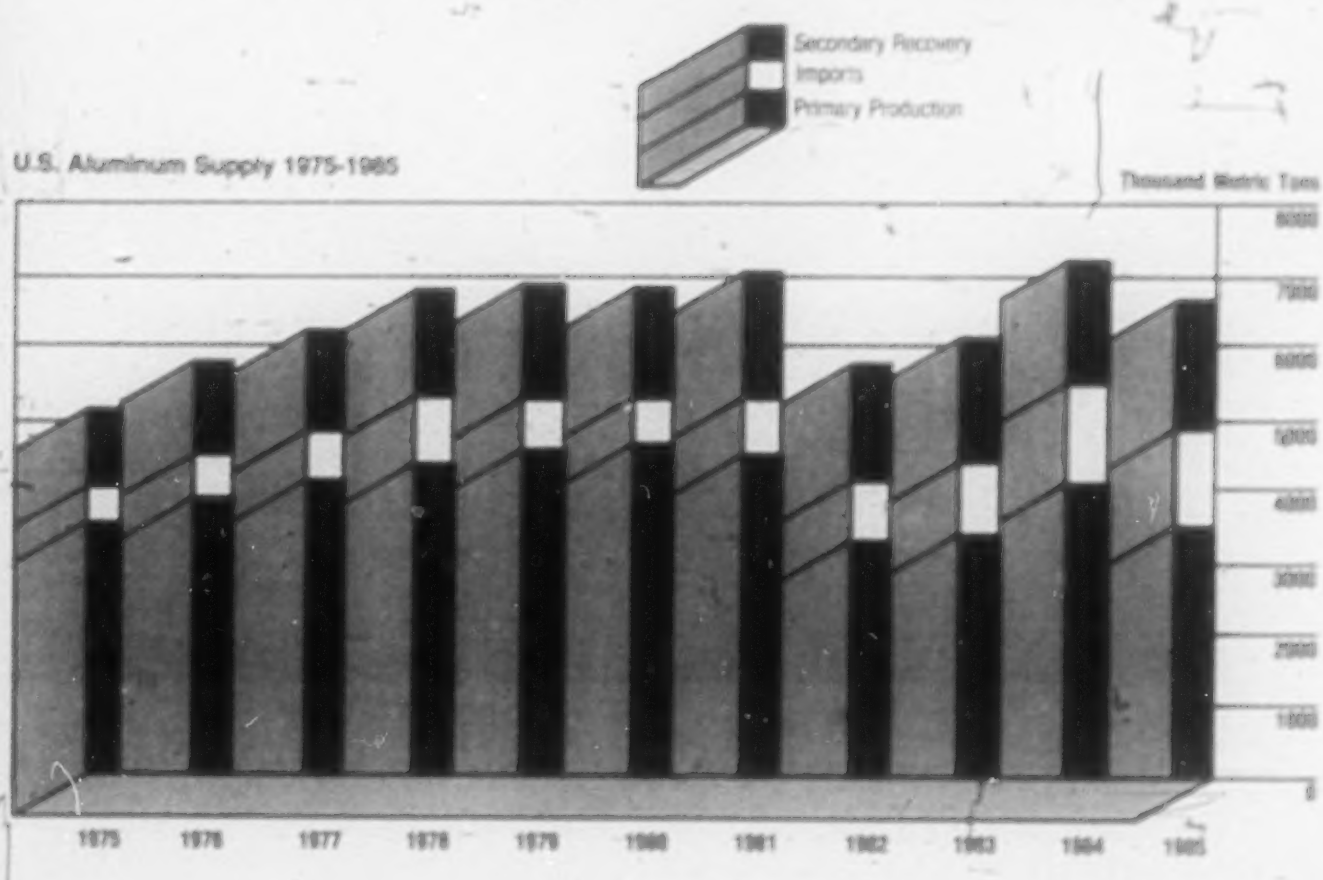
DESCRIPTION

United States supply of aluminum consists of domestic primary production, imports of primary and mill products, and metal recovered from scrap. No adjustment is made in this presentation for shipments to or withdrawals from the government stockpile. This is shown on page 24.

Detailed data on United States supply of aluminum from 1942 to 1985 are shown in the table on page 23.

For a picture of domestic primary production, see page 25. For the relationship of domestic primary production to world production, see pages 44-45. For a breakdown of imports, see pages 38-39. For further information on secondary recovery, see pages 30 and 31.

U.S. Aluminum Supply 1975-1985



Total Supply
1942-1985

Thousands of Metric Tons

Year	Total Supply	Domestic Primary Production	Imports			Secondary Recovery		
			Total	Primary[1]	Mill Products[2]	Total	Domestic[3]	Imported Scrap[1][3]
1942	753	473	102	97	5	178	178	(Z)
1943	1,242	835	126	123	(Z)	280	280	(Z)
1944	1,093	704	92	91	(Z)	297	295	1
1945	1,029	449	305	302	3	275	271	4
1946	674	371	39	38	1	264	252	12
1947	856	519	14	14	(Z)	325	312	13
1948	965	588	81	75	5	319	289	30
1949	852	547	79	72	7	197	164	32
1950	1,098	652	171	161	10	275	221	55
1951	1,171	759	132	111	19	282	266	16
1952	1,264	850	131	116	15	282	276	6
1953	1,795	1,136	303	273	30	356	334	22
1954	1,630	1,325	214	201	13	291	284	7
1955	2,014	1,420	200	179	21	392	370	18
1956	2,153	1,523	232	210	22	338	338	10
1957	2,133	1,466	224	205	20	415	404	11
1958	2,009	1,470	259	232	28	329	321	8
1959	2,457	1,773	268	218	32	416	407	9
1960	2,408	1,829	179	140	38	401	397	4
1961	2,402	1,727	232	191	40	445	440	5
1962	2,798	1,921	341	282	59	533	528	5
1963	3,118	2,058	419	377	42	601	593	8
1964	3,372	2,216	409	357	51	648	641	7
1965	3,817	2,409	540	479	61	774	752	22
1966	4,116	2,660	591	475	116	833	805	28
1967	4,254	2,956	466	408	58	871	797	25
1968	4,572	2,953	684	622	62	935	904	31
1969	4,991	3,441	484	425	59	1,067	1,043	24
1970	4,956	3,827	406	318	88	937	907	30
1971	5,146	3,361	562	503	79	1,084	953	31
1972	5,445	3,740	684	598	86	1,022	1,022	(Z)
1973	5,759	4,109	573	481	92	1,127	1,127	(Z)
1974	6,123	4,448	511	461	50	1,163	1,163	(Z)
1975	5,093	3,519	453	394	59	1,121	1,121	(Z)
1976	5,799	3,857	608	572	86	1,334	1,334	(Z)
1977	6,256	4,117	683	608	75	1,456	1,456	(Z)
1978	6,793	4,358	907	688	220	1,518	1,518	(Z)
1979	6,888	4,567	771	518	193	1,812	1,812	(Z)
1980	6,833	4,853	603	527	76	1,577	1,577	(Z)
1981	7,061	4,489	762	645	138	1,790	1,790	(Z)
1982	5,752	3,274	825	616	207	1,888	1,888	(Z)
1983	5,149	3,353	1,023	743	281	1,773	1,773	(Z)
1984	7,235	4,599	1,375	882	494	1,760	1,760	(Z)
1985	6,594	3,502	1,332	869	463	1,752p	1,752p	(Z)

r -- Revised. Detail may not add to totals due to rounding.

p -- Preliminary.

(Z) Less than 0.5 thousands of metric tons.

CONVERSION FACTOR: One metric ton = 2,204.6 pounds.

(1) Some imports of "shorter" metals classified by the Bureau of the Census in 1964-1967 as scrap, have been classified as primary metal, as estimated by the Department of Commerce.

(2) Domestic secondary does not recoverable metal content for estimated total scrap consumption, as estimated by the Bureau of Mines. Before 1973 total supply included both domestic secondary recovery and an estimated 80 percent recovery from reported scrap imports. Beginning in 1973 the Bureau of Mines required reporting of imported scrap; recovery data and these data are included in the domestic secondary figure beginning with that year.

(3) Starting in 1973, includes reimports of metal exported for processing and returned for further processing. (Table 606.30)

SOURCE: U.S. Department of Commerce, Bureau of the Census, Department of Interior, and Bureau of Mines.

U.S. Suppliers' Inventories

INVENTORIES DOWN 11.8 PERCENT

The Bureau of the Census began reporting U.S. Suppliers' aluminum inventory in 1968. The figures include all forms of scrap, ingot, metal in process and finished products. During 1984 inventories decreased by 690 million pounds to year-end inventory of 5,160 million pounds.

U.S. Suppliers' Inventories 1975-1985

Millions of pounds at end of year

Year*	Total	Type of Supplier: Integrated	Non Integrated	Secondary Smelter
1975	5,999	5,199	598	202
1976	5,701	4,781	687	234
1977	5,706	4,778	687	241
1978	5,494	4,480	776	258
1979	5,125	4,124	768	233
1980	5,076	4,018	797	261
1981	6,507	5,524	786	266
1982	6,199	5,354	759	216
1983	4,994	3,979	853	163
1984	5,850r	4,692r	929	229
	Total	Ingot	Scrap	Other
1985	5,160	2,243	569	2,349

Detail may not add due to rounding.

Prior to 1975 consult the Aluminum Statistical Review—Historical Supplement.

SOURCE: U.S. Department of Commerce, Bureau of the Census Current Industrial Report M33A.

Total Supply Adjusted for Stockpile

The United States Government's aluminum stockpile, following World War II, was formed to provide the nation with a supply of aluminum for mobilization purposes. Since 1963, as a result of an agreement between major domestic aluminum producers, other interested aluminum enterprises and the U.S. Government, a program of orderly disposal of the stockpile ensued. By the end of 1976, the stockpile was essentially depleted. The data in the table represent the best figures available from different sources. Total supply, unadjusted for stockpile changes is on page 23.

Total Supply Adjusted for Stockpile 1975-1985

Millions of pounds

Year*	Total supply—adjusted for stockpile	Total supply—all sources	Shipments from stockpile	Shipments to stockpile
1975	11,234	11,229	5	—
1976	12,803	12,785	18	—
1977	13,792	13,792	—	—
1978	14,954	14,954	—	—
1979	15,168	15,168	—	—
1980	15,064	15,064	—	—
1981	15,567	15,567	—	—
1982	12,703	12,703	—	—
1983	13,558	13,558	—	—
1984	15,951r	15,951r	—	—
1985	14,709	14,709	—	—

Prior to 1975 consult the Aluminum Statistical Review—Historical Supplement.

SOURCES: General Services Administration; U.S. Department of Commerce; Industry Sources.

Production of Primary Aluminum

PRODUCTION DOWN 14.6 PERCENT

Primary aluminum production totaled 3,499,700 metric tons in 1985 vs. the production of 4,099,100 metric tons in 1984. In the decade 1975-1985 the average annual rate of change was −0.8 percent.

DESCRIPTION:

In the United States, primary production of aluminum was begun in 1888 by the Pittsburgh Reduction Company. Data on aluminum production started in 1893, covering the industry from its very early period.

Data for 1975-1985 are presented here for your review. Data prior to 1975 may be obtained from the Aluminum Statistical Review—Historical Supplement.

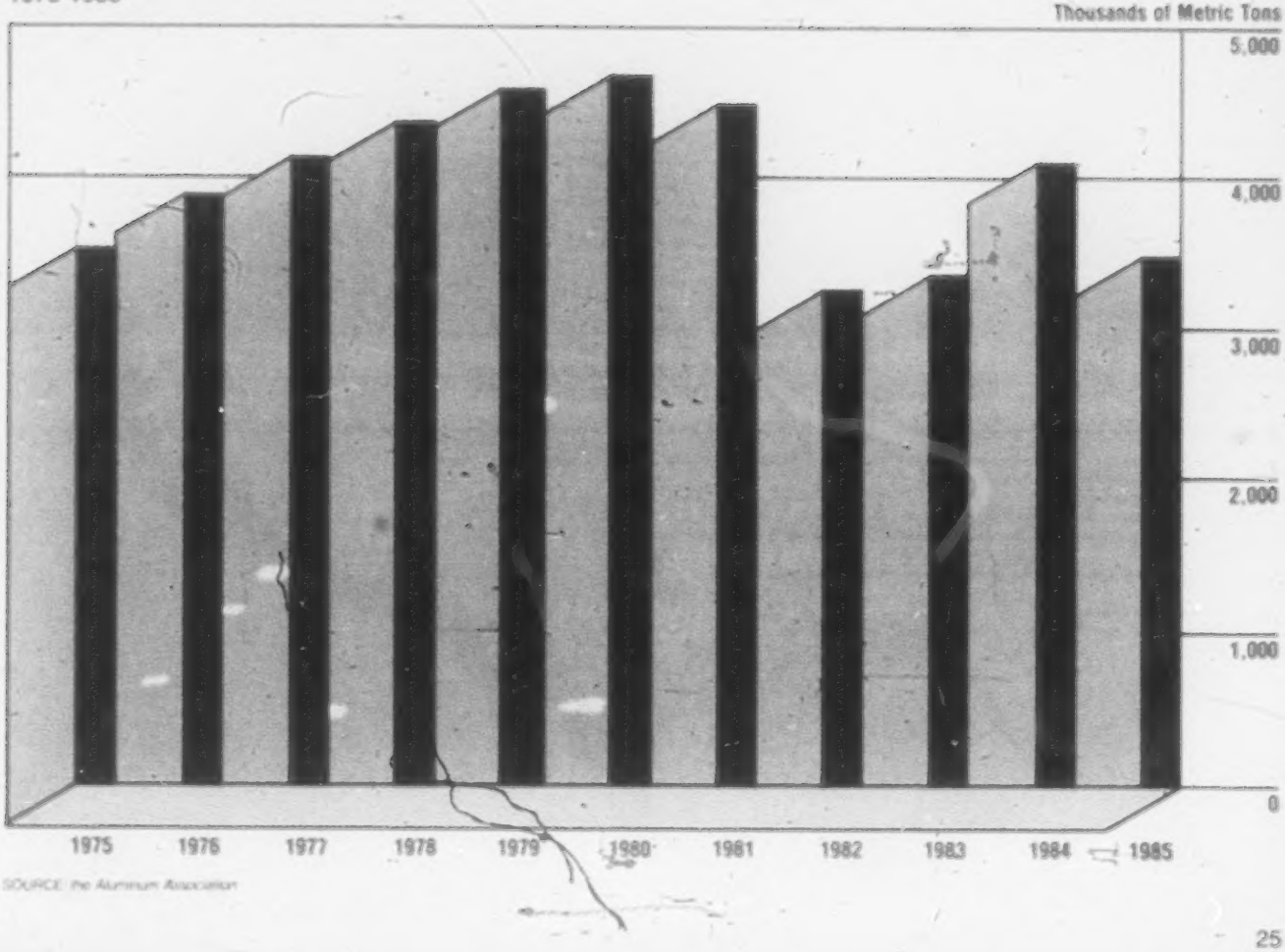
Production of Primary Aluminum in U.S.A. 1975-1985

Year*	Thousands of Metric Tons
1975	3,519.1
1976	3,856.8
1977	4,117.5
1978	4,358.0
1979	4,556.9
1980	4,653.6
1981	4,488.7
1982	3,273.7
1983	3,353.3
1984	4,099.1
1985	3,499.7

*Prior to 1975 consult the Aluminum Statistical Review—Historical Supplement.

SOURCES: The Aluminum Association, Inc.
CONVERSION FACTOR
One metric ton = 2,204.6 pounds.

U.S. Primary Aluminum Production 1975-1985



SOURCE: the Aluminum Association

U.S. Primary Aluminum Capacity

CAPACITY DOWN 8.8 PERCENT
Total annual primary aluminum installed capacity as of December 31, 1985 was 4,345,060 metric tons.

The percentage distribution of U.S. primary capacity by company at year-end 1985 was: Alcoa, 32.9%; Alumax, 13.8%; Kaiser, 12.1%; Reynolds, 9.7%; Consolidated, 5.2%; Norcuda, 4.7%; Revere, 4.3%; Commonwealth, 3.9%; Alcan, 3.8%; Columbia Falls, 3.8%; National Aluminum, 2.2%; Martin Marietta, 1.9%; Southwire, 1.8%.

DESCRIPTION:

There were thirteen domestic primary producer companies as of December 31, 1985. They were Alcan Aluminum Corp., Aluminum Company of America, Alumax, Inc., Columbia Falls Aluminum, Commonwealth Aluminum Corp., Consolidated Aluminum Corporation (including 66% interest in Ormet), Kaiser Aluminum & Chemical Corporation, Martin Marietta Aluminum Incorporated, National Aluminum Company (54.5% interest in National-Southwire), Noranda Aluminum Incorporated, Revere Copper and Brass Incorporated (including 34% interest in Ormet), Reynolds Metals Company and Southwire Company (45.5% interest in National-Southwire).

U.S. Primary Aluminum Capacity[1]
1975-1985

Thousands of Metric Tons

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Alcoa	1430.0	1429.7	1429.7	1429.7	1564.9	1564.9	1542.2	1542.2	1519.6	1519.6	1428.8
Alumax[3]	599.0	595.1	595.1	385.6	377.1	377.1	198.4	198.4	198.4	198.4	198.7
Kaiser	526.2	526.2	656.8	656.8	656.8	656.8	656.8	656.8	656.8	656.8	656.8
Reynolds	422.8	781.1	884.5	884.5	884.5	884.5	884.5	884.5	884.5	884.5	884.5
ARCO Aluminum[2][4][5]	-	326.6	326.6	326.6	326.6	326.6	326.6	272.2	272.2	272.2	272.2
Consolidated	227.2	292.3	294.1	326.8	319.3	319.3	319.3	319.3	319.3	319.3	319.3
Howmet[3]	-	-	-	207.0	198.4	198.4	198.4	198.4	198.4	198.4	197.3
Noranda	204.1	204.1	204.1	204.1	127.0	127.0	127.0	127.0	127.0	127.0	63.5
Revere	184.7	184.9	184.9	184.9	184.3	184.3	184.3	184.3	181.4	181.0	180.5
Commonwealth[4]	167.8	-	-	-	-	-	-	-	-	-	-
Alcan[5]	163.3	-	-	-	-	-	-	-	-	-	-
Columbia Falls[5]	163.3	-	-	-	-	-	-	-	-	-	-
National Aluminum	95.4	93.9	86.2	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
Martin Marietta[4]	81.6	249.5	249.5	249.5	190.5	190.5	190.5	190.5	190.5	190.5	190.5
Southwire	79.6	78.5	86.2	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
Total	4345.1	4761.9	4997.7	5018.8	4992.8	4992.8	4791.4	4737.0	4711.4	4711.0	4555.5

(1) Capacities shown are as reported for December 31. They include nominal ownership of plants owned by more than one company.
(2) Formally the Anaconda Company (Aluminum Division).
(3) Alumax acquired Howmet in 1983.
(4) Commonwealth acquired 67% of Martin Marietta in 1985.
(5) Alcan Aluminum and Columbia Falls Aluminum acquired 50% each of ARCO Aluminum in 1985.

Note: Prior to 1975 consult the Aluminum Statistical Review Historical Supplement.

SOURCE: The Aluminum Association.
CONVERSION FACTOR: One metric ton = 2,204.6 pounds.

Number of Plants in the U.S.

Number of Plants in the U.S.

SELECTED YEARS

PRODUCT	1985	1982	1977
Primary Ingot	30	32	32
Secondary Ingot	69	76	89
Sheet and Plate	44	68	49
Foil	26	27	27
Rod & Bar, Rolled and Continuous Cast	18	22	31
Wire, Bare, Conductor & Nonconductor	61	69	125
ACSR and Aluminum Cable, Bare	16	16	59
Wire & Cable, Insulated or Covered	43	43	90
Extruded Products	217	226	222
Drawn Tube	19	19	22
Welded Tube	16	18	32
Powder	19	17	18
Forgings	48	44	74
Impacts	13	16	29

na — Not available

SOURCE: 1967 & 1977 U.S. Department of Commerce
1982 and 1985: The Aluminum Association

The data presented here are based on a survey conducted by the Aluminum Association in 1985. Previous years are based on unofficial directories prepared by the U.S. Department of Commerce, Bureau of Industrial Economics.

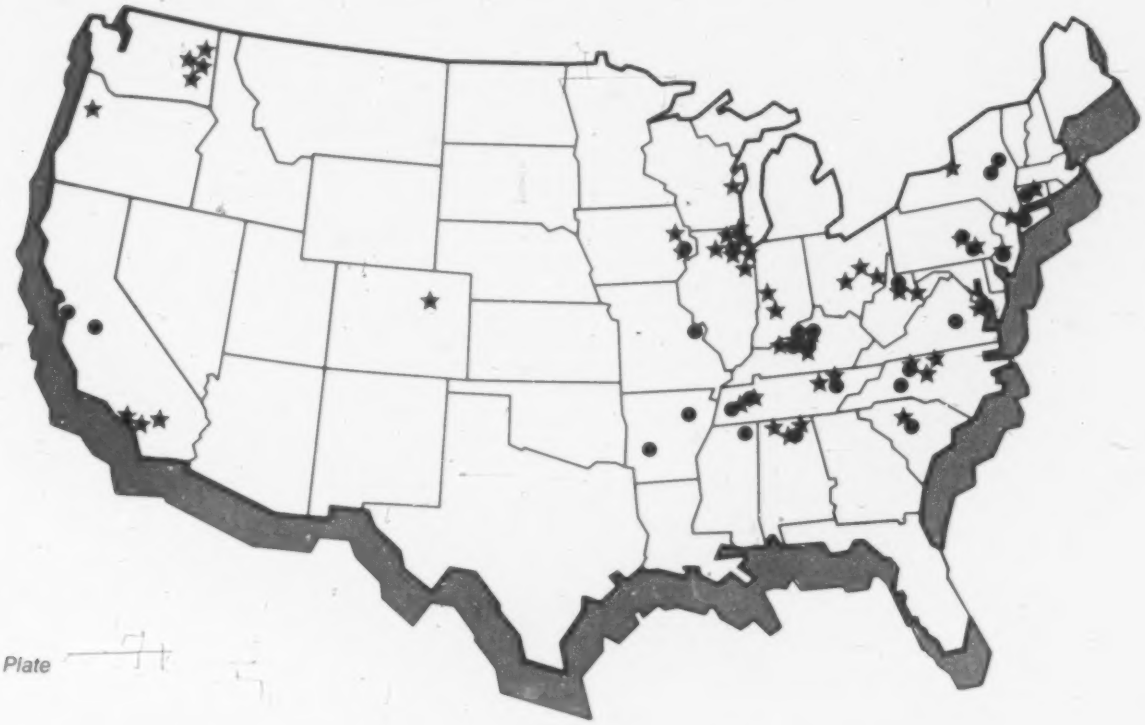
The figures shown for each product for selected years represent number of plants—not companies, which in many instances operate more than one plant. No totals are shown since some plants produce more than one product. Data include captive plants (plants producing only for company's own use).

Five outline maps of the United States indicating the geographic distribution of aluminum plants by various product groups in 1985 are presented on pages 27-29.

For a detailed listing, contact the Aluminum Association for a copy of the U.S. Aluminum Industry Plant Directory (August, 1985).

★ *Primary*
■ *Secondary*

U.S. Plants — cont.



● *Foil*
★ *Sheet and Plate*

● *Bare Wire*
★ *Rolled and Continuous Cast Rod and Bar*
■ *ACSR and Cable and/or Insulated or Covered Wire and Cable*

★ *Extrusions*

■ *Forgings and/or Impacts*
● *Powder and Paste*
★ *Drawn and/or Welded Tube*

Aluminum Scrap Consumption and Recovery

SCRAP CONSUMPTION DOWN 1.5 PERCENT

Total domestic industry scrap consumption on a gross weight basis, decreased 1.5 percent to 1985 level of 1,978,000 metric tons from the 1984 volume of 2,010,000 metric tons.

Secondary recovery totaled 1,762,000 metric tons with new scrap accounting for 52 percent and old scrap for 48 percent.

Old scrap recovery at 850,000 metric tons was up 3.0 percent from 1984. Reclamation from aluminum cans reached 565,000 metric tons, up 1.5 percent over 1984 accounting for 51.0% of can shipments.

DESCRIPTION:

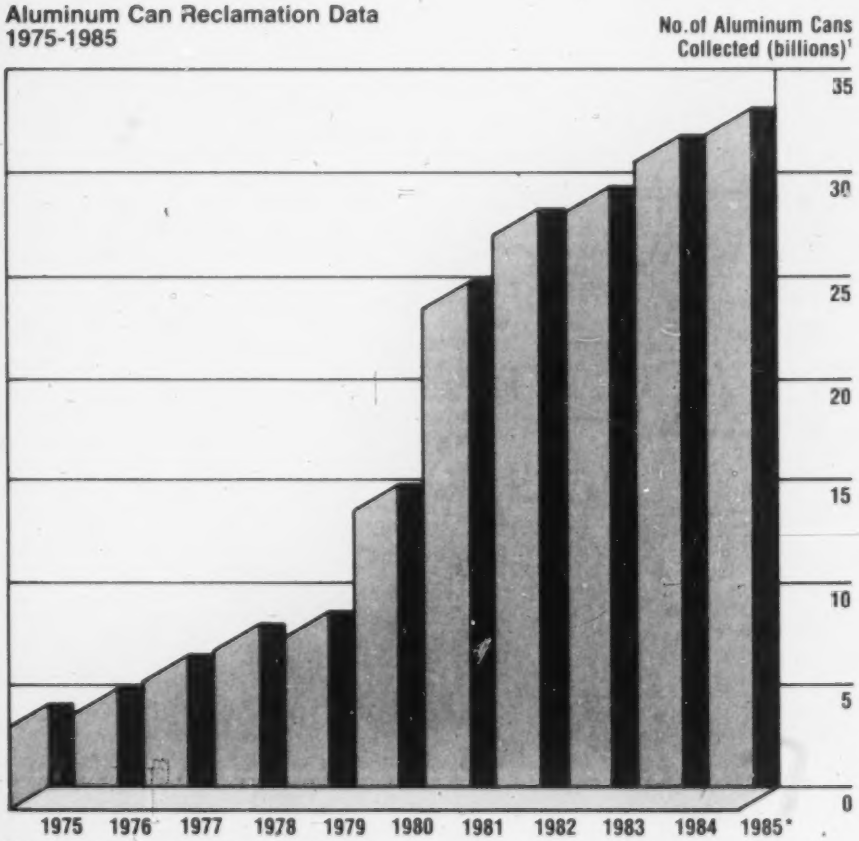
Recovery of aluminum from scrap, an important source of supply, is shown on pages 30 and 31. Two sets of scrap data are tabulated. The scrap consumption figures are on a gross weight basis as reported by plants consuming scrap. The aluminum recovery figures are on a recovered metal basis, that is the content of aluminum base alloy recovered from gross weight consumed. The figures in this table are consistent with domestic secondary recovery on page 23.

The aluminum recovery data are shown by source, that is by new and old scrap. New scrap, generated by plants making end products, and old scrap recovered from metal that has been used by consumers, are returned to plants making ingot and mill products and thus add to the total metal supply.

Through 1954, data on scrap consumption and recovery are based on complete reporting. Beginning in 1955, reported figures are expanded to industry totals by the Bureau of Mines to allow for a number of firms who do not report. In 1961, sweated pig consumption data were improved and included in old scrap.

Recovery of new scrap and old scrap over the past ten years has been about 25 percent of total supply (26.7 percent in 1985). However, this figures does not include "run-around" scrap consumed by the generating companies.

Aluminum Can Reclamation Data 1975-1985



[1] Calculation based on an Association can weight survey.
*preliminary

Aluminum Can Reclamation Data 1975-1985

Year	Pounds of Aluminum Collected (millions)	No. of Aluminum Cans Collected (billions)[3]	Percent of Aluminum Cans Collected[4]
1975	180[1]	4.1	26.9
1976	212[2]	4.9	24.9
1977	280[2]	6.6	26.4
1978	340[2]	8.0	27.4
1979	360[2]	8.5	25.7
1980	609[2]	14.8	37.3
1981	1,017[2]	24.9	53.2
1982	1,124[2]	28.3	55.5
1983	1,144[2]	29.4	52.9
1984	1,226[2]	31.9	52.8
1985p	1,245[2]	33.1	51.0

(1) Represents total industry; includes an additional 18 million pounds in the year 1974 which accounts for all-aluminum cans collected by non-members of the Aluminum Association.
(2) SOURCE: Net receipts—U.S. Department of the Interior, Bureau of Mines.
(3) Calculation based on an Association can weight survey.
(4) Based on Can Manufacturers Institute aluminum beverage can shipments data logged one quarter.
p — Preliminary

Aluminum Scrap Consumption and Recovery 1946-1985

Metric Tons

SCRAP CONSUMPTION		SCRAP CONSUMPTION (Gross Weight Basis) As Reported[6]				RECOVERY[5] (Recovered Metal Basis)		
Year	Total Industry[1]	Total	Secondary Smelters	Primary Producers[2][3]	Others[4]	Total Industry[1]	From New Scrap	From Old Scrap
1946	312,000	312,063	215,900	90,719	5,443	252,266	170,133	82,133
1947	372,920	372,920	283,123	81,656	8,141	312,834	164,193	148,641
1948	294,380	294,380	197,465	91,131	5,783	260,162	173,391	86,771
1949	180,567	180,567	116,549	59,514	4,504	163,986	123,529	40,457
1950	247,838	247,838	174,224	61,976	11,638	221,052	151,781	69,272
1951	301,457	301,457	210,777	72,996	17,685	265,452	195,969	69,483
1952	315,459	315,459	231,410	70,706	13,343	276,261	211,610	64,650
1953	374,973	374,973	250,639	105,244	19,090	334,361	262,747	71,614
1954	317,985	317,985	216,882	82,959	18,144	283,994	223,722	60,272
1955	444,500	387,413	284,749	78,689	23,974	375,600	285,300	90,300
1956	469,000	398,569	301,017	80,517	17,035	388,300	300,300	88,000
1957	482,600	420,031	312,982	85,276	21,773	403,800	315,300	88,500
1958	390,100	340,709	250,170	70,110	20,430	321,100	249,000	72,100
1959	489,000	431,792	348,822	57,078	25,892	407,300	313,000	94,300
1960	474,500	400,507	321,046	49,321	30,141	397,300	311,100	86,200
1961	525,300	451,888	300,921	40,435	110,532	440,000	298,900	141,100
1962	635,000	539,665	401,132	33,131	105,402	527,900	376,900	151,000
1963	707,600	587,398	447,399	40,719	99,280	593,300	449,100	144,200
1964	771,100	646,150	488,970	53,459	103,720	641,400	494,400	147,000
1965	880,000	740,833	526,031	86,170	128,632	752,100	566,100	186,000
1966	979,800	813,149	579,477	113,841	119,831	805,200	635,300	169,900
1967	961,600	800,866	559,870	111,573	129,423	796,500	638,200	158,300
1968	1,105,000	920,865	634,391	138,053	148,421	904,500	740,300	164,200
1969	1,207,500	1,006,166	673,245	178,587	154,334	1,043,200	861,800	181,400
1970	1,058,700	882,276	589,973	139,025	153,279	907,200	728,500	178,700
1971	1,097,700	911,529	580,522	154,908	176,099	952,600	756,600	196,000
1972	1,217,500	1,045,480	640,918	186,184	218,378	1,021,500	794,700	226,800
1973	1,343,600	1,145,277	668,438	192,820	284,020	1,126,700	886,300	240,400
1974	1,313,600	1,094,131	571,735	216,781	305,616	1,163,000	887,200	275,800
1975	1,319,100	1,117,804	554,785	310,995	252,023	1,121,300	815,600	305,700
1976	1,579,400	1,329,458	688,553	331,298	309,607	1,334,400	963,400	371,000
1977	1,681,900r	1,422,675	763,184	386,222	273,269	1,456,000	974,300	481,700
1978	1,733,600	1,466,492	800,777	396,770	268,944	1,517,700	996,100	521,600
1979	1,832,500	1,546,794	836,577	401,217	308,999	1,612,100	1,055,100	557,000
1980	1,798,100	1,536,454	802,191	491,491	242,771	1,576,700	959,800	616,900
1981	2,031,200	2,031,200	1,036,000	663,200	332,000	1,789,900	1,031,500	758,400
1982	1,900,600	1,900,600	880,000	673,100	347,500	1,665,600	883,600	782,000
1983	2,018,900	2,018,900	897,000	774,000	347,900	1,773,000	953,000	820,000
1984	2,010,000	2,010,000	872,000	782,000	356,000	1,760,000	935,000	825,000
1985p	1,978,000	1,978,000	923,000	727,000	328,000	1,762,000	912,000	850,000

r — revised

p — preliminary

(1) As reported, 1946-54; estimates expanded from reported figures, 1955 to present.

(2) For 1951-53 includes small amounts reported consumed by non-integrated fabricators.

(3) Represents 100 per cent scrap consumption coverage by primary producers.

(4) Most consumption of sweated pig apparently not reported by "others" prior to 1961.

(5) Recovery from sweated pig included in new scrap 1946-60, old scrap 1961 to present.

(6) Figures 1981 to present represent estimated full coverage.

SOURCE: U.S. Department of the Interior, Bureau of Mines and U.S. Depatment of Commerce, Bureau of Industrial Economics.

Conversion Factor: One metric ton = 2,204.6 pounds.

U.S. Aluminum Foreign Trade Statistics

IMPORTS ACCOUNT FOR 20.0 PERCENT OF U.S. SUPPLY
For the year 1985 imports of aluminum ingot and mill products accounted for 20.0 percent of total aluminum supply in the United States. Exports comprised 7.9 percent of total industry shipments. These facts illustrate the major role of foreign trade in the U.S. aluminum industry.

1985 imports of aluminum ingot fell 1.5 percent to 1,915 million pounds as compared with 1,945 million pounds in 1984. Imports of semifabricated products also fell, declining to 1,021 million pounds, down 6.3 percent from 1984.

Exports of aluminum ingot rose in 1985 to 766 million pounds, a 33.8% jump over the 1984 level of 572 million pounds. Exports of semifabricated products decreased to 439 million pounds, 13.0 percent below 1984.

Exports of aluminum scrap showed a 45.0% increase to a 826 million pound level.

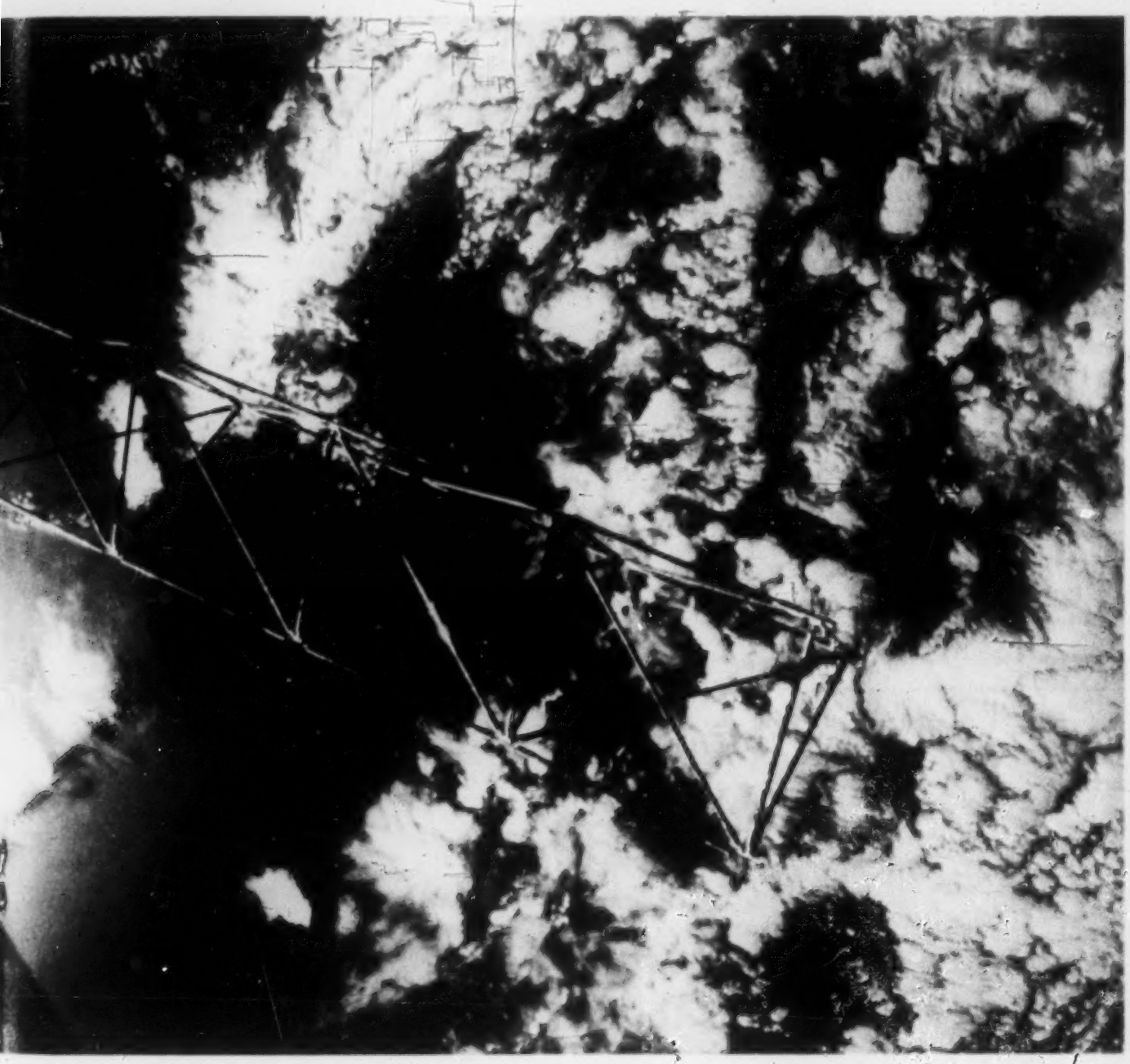
In 1985 the U.S. was again a net importer of aluminum by an amount of 1,193 million pounds.

The product composition of United States imports and exports for the years 1975-1985 is graphically presented on pages 34 and 35. The data for total imports and exports as well as the detail of semifabricated aluminum product imports and exports for 1985 and the preceding 10 years are tabulated on pages 36 and 37. The total imports include dross and skimmings and the gross weight of scrap. In the table on United States Supply (page 23) dross and skimmings are excluded, and the recovered weight of imported scrap is used. It is counted as part of domestic secondary recovery for the years 1972-1985 and shown as a separate supply component for years prior to 1972.

The detail of 1985 aluminum imports by product and country of origin is presented on pages 38 and 39. Similarly, the exports on a product basis by country of destination are detailed on pages 40 and 41.

For information on years prior to 1975 see the Aluminum Statistical Review—Historical Supplement.

U.S. astronauts assembled aluminum structured units in orbit as prototype modules for future space stations, during flight of shuttle orbiter Atlantis, Nov. 26-Dec. 3, 1985. In NASA photo, Sherwood C. Spring, anchored to the remote manipulator system arm, checks joints on aluminum tower extending from Atlantis' cargo bay, high above the Gulf of Mexico.



U.S. Imports

IMPORTS DOWN 3.9 PERCENT
Aluminum imports totaled 3,224 million pounds during 1985, down 3.9 percent from 1984. Ingot, which accounted for 59.4 percent of all aluminum imported during 1985 decreased 1.5 percent to 1,915 million pounds. Canada topped the list of ingot importers with imports of 1,490 million pounds, 77.8 percent of total ingot imports.

Semifabricated aluminum products decreased 6.3 percent to 1,021 million pounds. Japan led the list of over 50 countries exporting semifabricated products to the U.S. with a total of 328 million pounds or 32.1 percent of total semifabricated products imports. Aluminum sheet imports, at 690 million pounds, were down 14.2 percent. Japan and Canada continue to be the largest source at 44.6 percent and 12.7 percent of the total respectively.

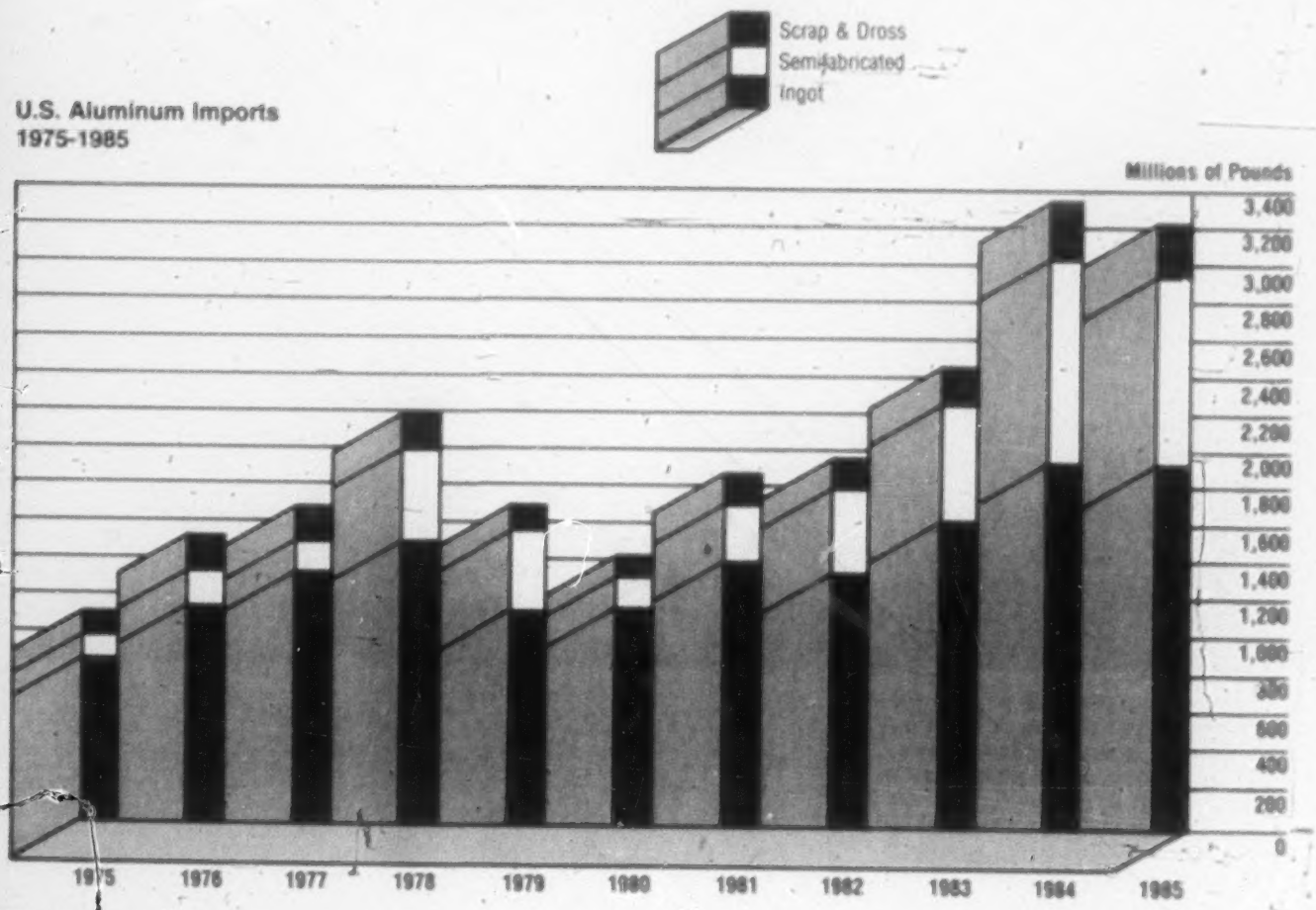
Scrap imports decreased 9.8 percent to 288 million pounds.

Based on preliminary estimates, imported semifabricated products achieved a 7.1 percent penetration of the U.S. market, down from 7.5 percent in 1984.

DESCRIPTION:

The graph below illustrates the trend of U.S. aluminum imports in the years 1975-1985. In addition to showing the imports of ingot, scrap, and dross and skimmings, the upper half of the table on pages 36 and 37 shows in detail the categories of imports of semifabricated products for the years 1975-1985. Imports of aluminum by country for the year 1985 are shown on pages 38 and 39.

U.S. Aluminum Imports 1975-1985



Source: the Aluminum Association

U.S. Exports

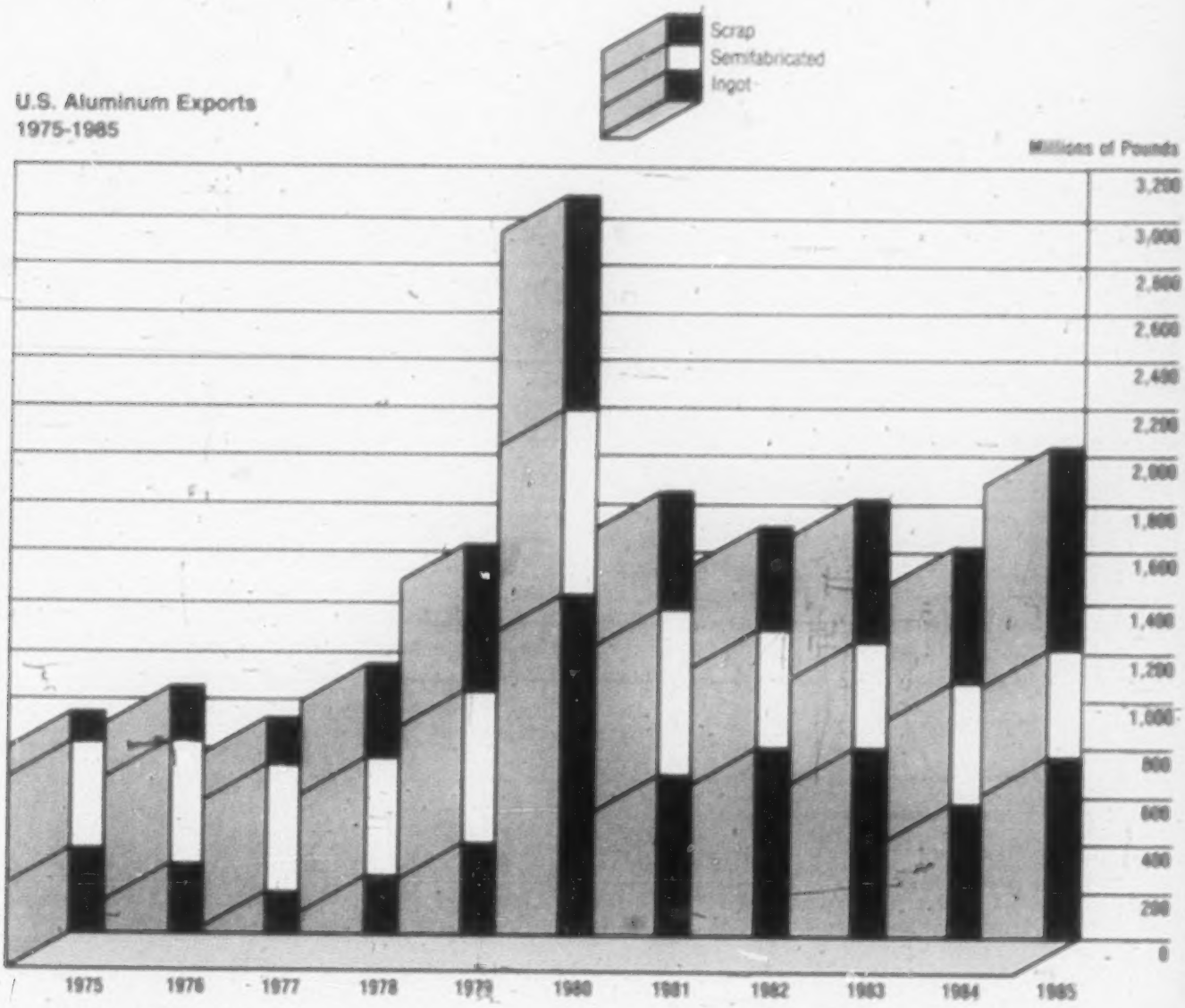
U.S. EXPORTS UP 23.3 PERCENT
Total aluminum exports during 1985 were 2,030 million pounds, up 23.3 percent from 1984. Ingot exports rose 33.8 percent to 766 million pounds from a 1984 level of 572 million pounds. Semifabricated exports decreased 13.0% from 504 million pounds in 1984 to 439 million pounds in 1985. Exports of scrap jumped from 570 million pounds in 1984 to 826 million pounds in 1985, about 45.0%.

Of the more than 110 countries receiving aluminum from the U.S. in 1985, Japan received 50.6 percent or 1,027 million pounds, (437 ingot, 581 scrap and 9 semifabricated). Exports to Canada were 400 million pounds of which 286 million pounds were semifabricated products and exports to Mexico were 207 million pounds.

DESCRIPTION:

The graph below illustrates the trend of U.S. aluminum exports in the years 1975-1985. In addition to showing the exports of ingot and scrap, the lower portion of the table on pages 36 and 37 shows the detail of exports of semifabricated products for the yers 1975-1985. Exports of aluminum by country for 1984 are shown on pages 40 and 41.

U.S. Aluminum Exports
1975-1985



Source: the Aluminum Association

United States Imports and Exports

United States Imports and Exports 1975-1985

Thousands of pounds

PRODUCT	1985	1984	1983	1982	1981
Total imports	3,223,576	3,353,256	2,465,217	1,966,647	1,894,847
TOTAL INGOT & SEMIFABRICATED	2,935,770	3,034,098	2,255,700	1,814,325	1,725,229
INGOT	1,915,099	1,944,381	1,637,353	1,358,751	1,421,201
SEMIFABRICATED, TOTAL	1,020,671	1,089,717	618,347	455,574	303,909
Sheet & plate, Total	770,093	884,498	536,059	414,819	247,139
Circles & disks	25,936	29,144	19,121	16,404	11,673
Other	744,157	855,354	516,929	393,415	235,466
Foil, Total	57,176	54,805	29,238	19,328	13,430
Over .00035"	37,733	27,045	12,345	8,749	4,791
Not over .00035"	17,891	23,631	15,276	8,758	6,608
Capacitor	1,552	3,329	1,666	1,870	2,031
Rod & bar	121,870	82,269	27,435	10,057	34,238
Wire	21,105	25,966	6,444	3,202	3,226
Cable	4,472	5,337	2,021	101	8
Angles, shapes, etc.	16,312	12,690	3,478	1,272	1,320
Pipe & tube	7,381	8,981	3,170	1,279	1,167
Powder & paste	15,430	14,971	10,503	5,595	3,388
SCRAP	281,091	303,522	195,049	148,675	163,988
DROSS & SKIMMINGS	6,715	15,634	14,469	3,647	5,639
Total Exports*	2,030,140	1,646,159r	1,819,397	1,723,285	1,852,324
TOTAL INGOT & SEMIFABRICATED	1,204,187	1,076,484r	1,240,875	1,294,667	1,370,001
INGOT	765,648	572,316	795,216	802,348	688,329
SEMIFABRICATED, TOTAL	438,539	504,169r	445,659	492,339	681,680
Sheet & plate	329,311	402,992	318,667	323,074	411,385
Foil	12,031	11,917	10,952	12,933	21,338
Rod & bar	22,853	22,133	24,374	51,980	107,463
Wire, bare	8,932	6,162	9,972	11,791	24,653
Other conductor	5,704	5,699	35,845	46,953	70,324
Angles, shapes, etc.	15,686	11,137	10,310	9,298	8,507
Pipe & tube, Total	10,389	10,492r	9,480	13,157	15,216
Electric conduit	2,828	1,335	1,730	3,218	3,137
Other	7,561	9,157r	7,751	9,939	12,079
Powder	6,278	6,086	5,675	6,082	6,769
Castings	20,190	21,488	18,199	14,359	17,860
Forgings	7,166	4,064	2,785	2,711	3,165
SCRAP	825,953	569,675r	578,522	428,598	482,323
Net imports*	1,193,436	1,721,263	645,820	243,362	42,523

Detail may not add to totals due to rounding
** Imports less exports*

NOTE: Prior to 1975, consult the Aluminum Statistical Review—Historical Supplement

SOURCE: U.S. Department of Commerce, Bureau of The Census

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1.453.529	1.714.794	2.194.902	1.888.864	1.524.371	1.120.267
1.329.404	1.367.857	2.088.058	1.585.431	1.336.742	946.468
1.181.328	1.141.597	1.515.575	1.340.658	1.150.749	890.281
768.679	426.339	484.482	164.773	189.005	136.187
536.117	357.285	433.684	128.675	150.543	107.087
7.757	21.529	20.473	15.363	15.349	10.408
118.366	356.756	493.291	113.312	133.594	96.346
9.099	17.925	21.451	9.753	10.383	4.485
3.532	6.026	7.489	3.679	4.583	2.323
4.116	10.036	12.676	5.141	5.258	1.559
1.452	1.870	1.336	943	1.147	615
16.343	37.959	22.133	16.146	21.867	12.716
2.256	6.362	3.840	3.529	4.077	2.588
144	146	77	438	587	317
1.206	1.664	1.753	2.062	498	302
682	1.098	868	731	879	842
12.228	3.361	637	1.455	570	637
119.503	136.532	184.385	139.789	1.171.427	135.813
4.522	10.305	10.539	3.384	13.862	12.186
3.082.645	1.637.086	1.136.424	915.508	1.038.439	938.770
2.693.283	1.022.924	747.409	712.182	670.522	804.988
1.429.853	401.300	253.234	196.542	304.332	375.775
753.470	625.625	484.174	330.640	515.796	433.268
425.792	404.509	291.754	244.389	343.014	276.329
37.911	25.566	11.982	11.082	14.252	10.375
136.736	61.592	58.672	27.433	54.913	31.577
57.737	30.179	23.908	15.240	18.364	25.481
29.029	30.800	56.227	58.132	27.830	27.358
25.179	22.402	17.110	8.494	9.791	14.529
74	16.178	93.115	29.279	19.216	15.107
1.569	1.907	3.493	7.256	4.577	3.766
14.931	14.277	15.622	14.940	15.178	11.840
16.047	14.256	14.584	14.804	16.879	8.928
14.962	17.842	na	8.146	7.259	5.774
3.195	3.526	na	5.643	3.463	4.240
889.363	614.162	388.015	203.326	257.917	133.802
1.629.116	77.758	1.098.479	773.096	488.532	181.467

United States Imports by Product and Country

United States Imports by Product and Country—1985

Thousands of Pounds

Country	Total	Ingot	Scrap Dross and Skimmings	Semi-fabricated Products	Sheet	Plate	Circles & Discs
TOTAL ALL COUNTRIES	3,223,576	1,915,099	287,806	1,020,671	689,717	54,440	25,936
AFRICA	80,195	78,331	119	1,745	1,742	—	—
Ghana	41,584	41,584	—	—	—	—	—
South Africa, Rep	35,131	33,315	74	1,742	1,742	—	—
Other	3,481	3,432	45	4	—	—	—
NORTH AMERICA	1,837,884	1,489,675	231,004	117,205	87,057	13,799	8
Canada	1,837,884	1,489,675	231,004	117,205	87,057	13,799	8
LATIN AMERICA	354,084	164,747	31,317	158,019	17,640	—	341
Argentina	66,022	55,794	—	10,228	6,513	—	131
Brazil	110,101	92,015	—	18,086	3,545	—	204
Mexico	15,426	53	11,777	3,596	2,721	—	7
Panama	3,065	—	3,021	44	—	—	—
Venezuela	156,675	16,572	14,822	125,282	4,409	—	—
Other	2,795	314	1,698	783	453	—	—
FAR EAST	339,360	5,333	9	334,019	307,893	1,091	7,156
Hong Kong	4,976	1,091	—	3,885	134	5	3,468
Japan	331,508	3,660	9	327,840	307,569	1,054	3,470
Korea, Rep. of	737	34	—	703	4	30	111
Taiwan	2,138	548	—	1,591	187	3	106
SOUTH ASIA	111,763	99,465	762	11,536	5,737	17	—
Afghanistan	1,393	1,393	—	—	—	—	—
Bahrain	30,686	27,345	—	3,341	—	—	—
Israel	9,556	3,795	718	5,546	3,693	17	—
Saudi Arabia	2,828	2,628	—	—	—	—	—
United Arab Emirates	65,975	64,605	—	1,370	1,250	—	—
Other	1,323	—	44	1,279	795	—	—
EUROPE	432,674	70,958	9,411	352,365	227,203	39,375	18,396
Austria	5,606	12	—	5,595	4,037	—	77
Belgium	77,907	2,061	1,122	74,724	61,928	2,382	5,125
France	56,403	1,932	—	54,472	25,033	21,206	2,877
Germany, F.R.	68,273	7,098	1,424	59,751	33,180	3,490	821
Greece	11,018	44	—	10,974	6,713	30	414
Italy	25,671	92	555	25,024	16,347	786	4,477
Netherlands	19,869	3,303	402	16,164	15,746	37	7
Norway	15,199	207	—	14,992	14,914	—	78
Spain	55,299	46,882	14	8,403	4,903	68	548
Sweden	5,037	112	—	4,925	3,883	1	32
Switzerland	26,681	2,080	—	24,601	18,456	2,551	1,232
Turkey	10,991	36	—	10,955	6,331	—	—
United Kingdom	36,277	6,786	5,892	23,599	6,103	8,804	2,350
Yugoslavia	16,298	—	—	16,298	9,457	21	324
Other	2,143	254	—	1,889	973	—	26
OCEANIA	37,106	2,968	144	33,994	33,825	158	—
Australia	36,979	2,968	58	33,953	33,787	158	—
Other	127	—	86	41	39	—	—
TOTAL WESTERN WORLD	3,193,066	1,911,417	272,766	1,008,883	681,097	54,440	25,901
OTHER	30,510	3,682	15,040	11,788	8,619	—	35
Hungary	10,428	—	—	10,428	7,495	—	—
Romania	1,125	—	—	1,125	1,071	—	35
USSR	18,566	3,526	15,040	—	—	—	—
Other	392	156	—	236	54	—	—

(*) Less than 500 pounds.

Details may not add to totals because of rounding.

SOURCE: U.S. Department of Commerce, Bureau of The Census.

NOTE: Reimports are metal exported for processing and returned for further processing (TSUSA 806.30)

Total Foil	Capacitor Foil	Foil, not Over 0.00035	Foil over 0.00035	Rod and Bar	Wire	ASCR and Bare Cable	Angles, Shapes & Sections	Pipes Tubes & Fittings	Powder and Paste
57,176	1,552	17,891	37,733	128,703	21,105	4,472	16,312	7,381	15,430
1	—	—	1	—	—	—	—	2	*
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	*
1	—	—	1	—	—	—	—	2	*
7,543	—	4,845	2,698	1,393	2,138	288	3,049	601	1,330
7,543	—	4,845	2,698	1,393	2,138	288	3,049	601	1,330
2,281	6	810	1,466	112,726	14,462	2,000	6,032	1,092	1,445
75	—	74	1	3,043	302	—	47	117	—
1,916	6	636	1,274	5,142	724	606	4,015	468	1,437
7	—	—	7	60	26	—	683	86	7
—	—	—	—	—	—	—	—	44	—
31	—	—	31	104,481	13,411	1,394	1,209	347	—
252	—	100	152	—	—	—	77	*	1
10,121	246	5,292	4,583	1,814	446	871	1,972	2,480	174
—	—	—	—	—	193	—	85	—	—
10,090	243	5,292	4,554	1,545	251	323	1,269	2,104	165
8	3	—	5	5	2	529	1	4	9
24	—	—	24	263	—	18	617	372	—
500	—	145	355	171	90	—	3,509	537	974
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	2,075	308	959
73	—	38	35	52	88	—	1,396	225	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	118	—	—	2	—	—
427	—	106	320	—	2	—	36	5	15
33,995	1,291	6,798	25,906	12,580	3,958	1,313	1,737	2,659	11,139
1,422	*	431	991	—	—	—	53	6	—
1,591	13	74	1,504	3,051	459	—	28	158	*
2,211	366	697	1,149	1,505	793	93	90	255	410
14,912	88	3,565	11,259	179	179	96	440	1,089	5,364
3,800	—	—	3,800	—	12	—	—	—	5
1,971	796	356	819	1,016	88	6	5	179	148
69	8	42	20	164	21	—	24	18	77
—	—	—	—	—	—	—	—	*	—
553	—	79	475	439	572	970	333	15	4
291	—	—	291	3	—	16	160	3	1,337
1,808	1	1,473	334	17	—	*	515	15	—
4,625	—	—	4,625	—					
375	19	77	280	1,483	713	—	76	659	3,036
291	—	3	288	4,722	1,129	133	10	136	75
75	—	1	74	2	—	—	3	127	683
—	—	—	—	1	—	—	4	5	—
—	—	—	—	1	—	—	2	5	—
—	—	—	—	—	—	—	2	—	—
54,442	1,543	17,890	35,010	128,684	21,103	4,472	16,304	7,377	15,062
2,734	9	2	2,723	19	1	—	8	4	368
2,557	—	2	2,556	—	—	—	8	—	368
—	—	—	—	19	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
176	9	—	167	*	1	—	—	4	—

United States Exports by Product and Country

United States Exports by Product and Country—1985

Thousands of Pounds

Country	Total	Ingot	Waste & Scrap	Semi-fabricated Products	Sheet	Plate	Circles & Discs
TOTAL ALL COUNTRIES	2,030,140	765,648	825,953	438,539	299,582	26,209	3,520
AFRICA	1,849	344	81	1,424	272	1	*
South Africa, Rep. of	489	18	—	471	126	—	—
Other	1,360	326	81	954	146	1	*
NORTH AMERICA	400,348	79,808	34,923	285,617	231,928	9,244	1,981
Bermuda	35	*	3	31	7	—	
Canada	400,314	79,808	34,920	285,586	231,920	9,244	1,981
LATIN AMERICA	240,568	49,525	112,438	78,605	47,896	7,147	560
Barbados	803	—	—	794	142	1	—
Brazil	5,009	517	2,074	2,418	612	905	1
Colombia	3,662	72	47	3,544	3,442	11	2
Dominican Rep.	2,497	1,719	—	777	126	5	—
Jamaica	731	83	300	348	83	14	—
Mexico	207,141	44,117	109,728	53,297	33,031	6,094	479
Panama	1,574	1,224	—	350	10	13	—
Peru	546	195	45	306	23	4	10
Trinidad	1,861	609	—	1,252	11	*	1
Venezuela	12,808	109	4	12,695	9,780	17	50
Other	3,935	869	241	2,825	635	83	17
EAST ASIA	1,174,931	525,979	630,818	18,134	7,450	2,312	314
Hong Kong	11,736	9,187	287	2,262	1,185	55	23
Japan	1,027,311	437,268	581,183	8,860	4,112	1,406	222
Korea, Rep. of	52,121	46,440	1,727	3,954	763	84	3
Taiwan	83,764	33,084	47,622	3,057	1,390	767	67
SOUTH ASIA	26,404	1,407	422	24,575	3,286	1,151	593
Bangladesh	607	607	—	—	—	—	—
Israel	9,779	379	64	9,336	1,669	998	590
Kuwait	881	7	—	874	509	—	—
Saudi Arabia	9,330	12	—	9,318	275	24	3
Singapore	1,848	288	79	1,481	515	7	—
Thailand	1,421	56	16	1,349	49	—	*
United Arab Emirates	1,316	—	43	1,273	1	*	—
Other	1,222	58	219	945	267	122	*
EUROPE	138,410	64,699	47,176	26,536	7,976	6,182	62
Netherlands	75,158	60,281	11,620	3,251	1,266	509	24
Italy	16,651	47	11,087	5,518	1,581	816	2
Germany, Fed. Rep.	15,001	635	10,678	3,688	1,010	1,579	3
United Kingdom	13,897	3,118	3,486	7,293	1,988	1,553	3
Belgium	7,870	121	6,469	1,280	597	129	—
Spain	4,140	4	3,100	1,036	285	460	*
France	2,282	344	710	1,227	245	482	8
Switzerland	1,725	8	—	1,718	166	356	—
Sweden	1,901	95	—	906	624	180	7
Other	684	39	25	620	212	118	14
OCEANIA	3,873	506	92	3,274	651	155	9
Australia	3,067	501	53	2,513	616	154	6
Other	806	5	39	761	35	1	4
TOTAL WESTERN WORLD	1,986,384	722,268	825,951	438,166	299,458	26,193	3,520
OTHER	43,756	43,380	2	373	124	16	—
China, P.R.	43,714	43,380	2	332	83	16	—
Other	42	—	—	42	41	—	—

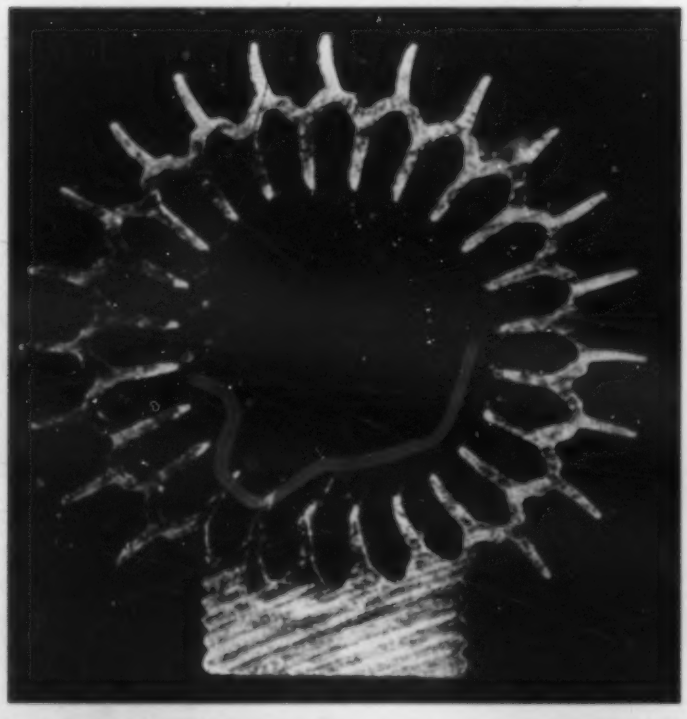
*Less than 500 pounds

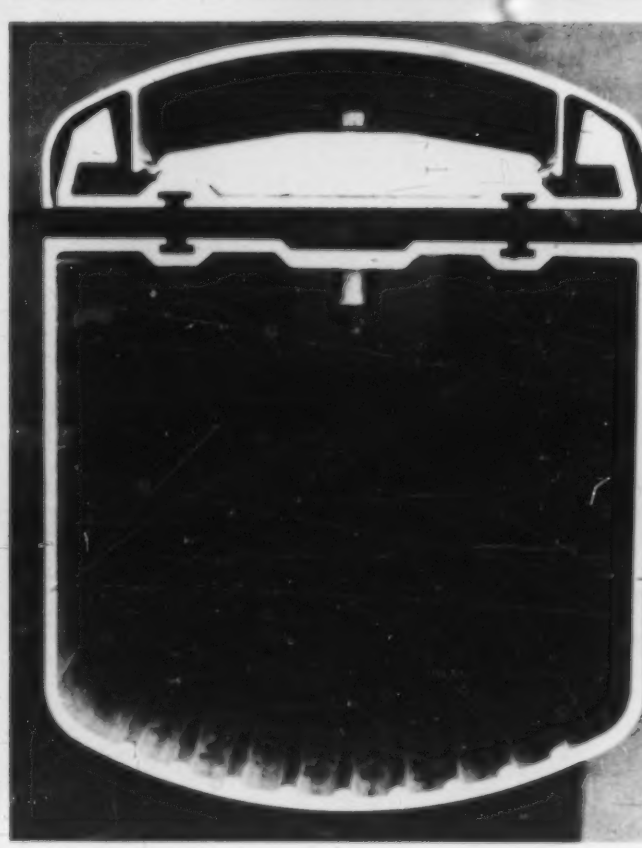
SOURCE: U.S. Department of Commerce, Bureau of the Census

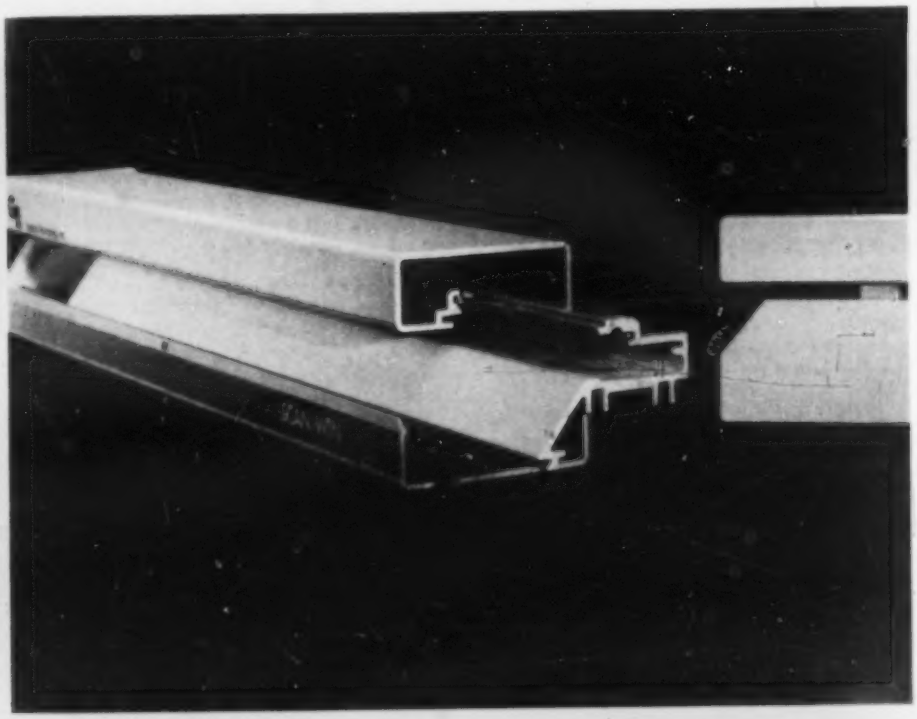
Detail may not add to totals due to rounding

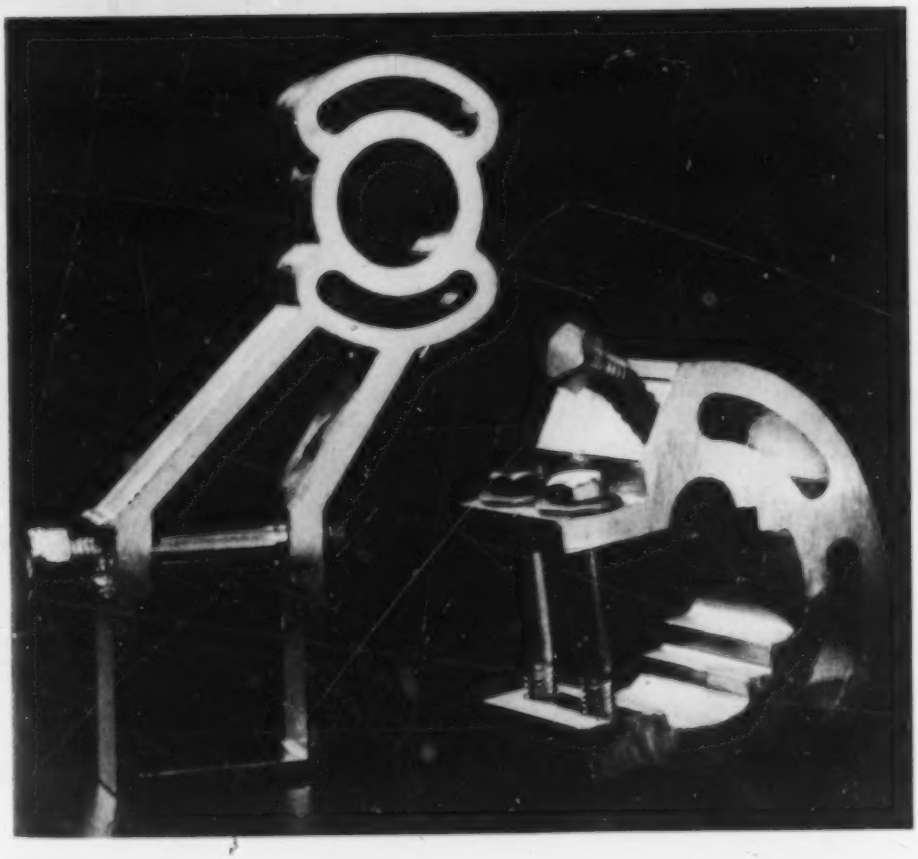
Foil	Rod and Bar	Wire	ACSR & Bare Cable	Angles, Shapes & Sections	Total Pipe & Tube	Electrical Conduit	Other Pipe & Tube	Powder & Paste	Castings	Forgings
12,031	22,853	8,932	5,704	15,686	10,389	2,828	7,561	6,278	20,190	7,166
222	120	32	11	34	308	196	112	423	2	—
6	38	6	—	*	39	—	39	255	1	—
216	81	26	11	34	270	196	73	168	1	—
1,999	5,794	2,335	364	3,065	4,298	1,794	2,504	2,033	17,018	5,556
		1	1	18	2	2			2	—
1,199	5,794	2,335	363	3,048	4,296	1,792	2,504	2,033	17,016	5,556
3,516	6,213	3,205	327	2,098	3,839	474	3,365	1,379	2,027	399
50	39	24	—	7	69	—	69	—	461	—
25	460	63	—	189	40	*	40	115	3	5
19	10	22	—	3	14	*	14	13	6	*
107	6	202	—	277	50	9	40	1	—	5
102	6	39	48	6	47	—	47	—	4	—
773	5,000	2,294	67	214	2,729	412	2,318	840	1,391	383
187	—	105	—	*	21	2	19	1	13	1
14	21	2	—	114	5	—	5	112	*	—
356	5	18	2	737	—	—	—	38	83	—
1,315	572	125	—	*	685	18	668	147	3	1
568	93	312	210	550	178	33	145	112	63	5
506	1,405	658	111	4,178	342	74	268	556	250	52
235	35	125	*	585	12		12	3	4	—
145	611	53	1	1,729	97	36	61	414	54	15
7	409	455	110	1,805	96	30	67	116	102	6
120	350	25	—	59	136	8	128	23	90	31
4,912	4,076	1,553	4,820	2,805	737	267	470	127	290	225
—	—	—	—	—	—	—	—	—	—	—
19	2,608	303	5	2,596	188	1	188	21	115	224
353	—	—	—	1	10	10	1	—	—	1
2,856	15	973	4,811	18	337	214	123	—	5	—
353	321	34	—	28	11	6	6	54	157	*
37	1,078	146	—	2	1	—	1	36	—	—
1,115	—	—	—	89	63	—	63	—	5	—
180	54	98	4	71	126	37	89	16	7	—
801	4,414	888	67	3,095	380	19	361	1,312	552	806
42	50	42	*	645	26	13	14	551	33	62
65	2,018	322	—	419	74	1	73	81	93	47
171	273	108	—	120	42	*	42	38	251	92
316	1,193	107	3	1,052	128	1	127	494	121	333
72	5	61	9	164	7	1	5	14	28	195
5	63	3	—	147	23	—	23	9	*	40
55	6	133	52	152	18	*	17	60	13	4
33	739	57	—	331	25	*	24	8	*	2
5	23	*	3	34	5	1	4	21	1	2
36	42	54	—	32	33	2	31	37	13	27
75	829	261	3	278	407	3	404	434	51	121
62	828	255	2	90	336	3	333	30	41	94
13	1	6	1	188	71	—	71	404	10	27
12,031	22,852	8,931	5,704	15,522	10,311	2,828	7,483	6,264	20,190	7,160
*	2	*	—	134	78	—	78	13	—	6
—	2	*	—	134	78	—	78	12	—	6
*	—	—	—	—	—	—	—	1	—	—

World Aluminum Statistics









The aluminum industry is international by its very nature. From the extraction of its basic source material at bauxite sites located in a number of countries throughout the world to its fabrication and distribution in every nation on earth, the aluminum industry should be viewed in a world-wide perspective. This section attempts to provide data on two of the key aspects of world aluminum, world primary aluminum production and the apparent per capita consumption of aluminum for selected countries.

World production of primary aluminum in 1985 is estimated to have been 15,289 thousand metric tons, down 2.4 percent from 1984. World primary aluminum production is presented by country for the years 1975-1985 on pages 45.

Data on the consumption of aluminum on a per capita basis are presented for 41 countries. These countries represent three-quarters of the world's production of primary aluminum. The data are presented in a uniform statistical format for the years 1975-1985. The data for supply and consumption show ingot and mill product detail for imports and exports. Midyear population figures are presented as part of the calculation of consumption on a per capita basis for each country.

With this issue, World Aluminum Statistical data has been converted to metric tons, with one exception: the per capita aluminum consumption summary on page 47 is still expressed in pounds per person per year. Individual country data tables show per capita consumption in kilograms.

Six of the 14 winners in the 1986 International Aluminum Extrusion Design Competition demonstrate the versatility of extruded aluminum shapes.

World Primary Aluminum Production

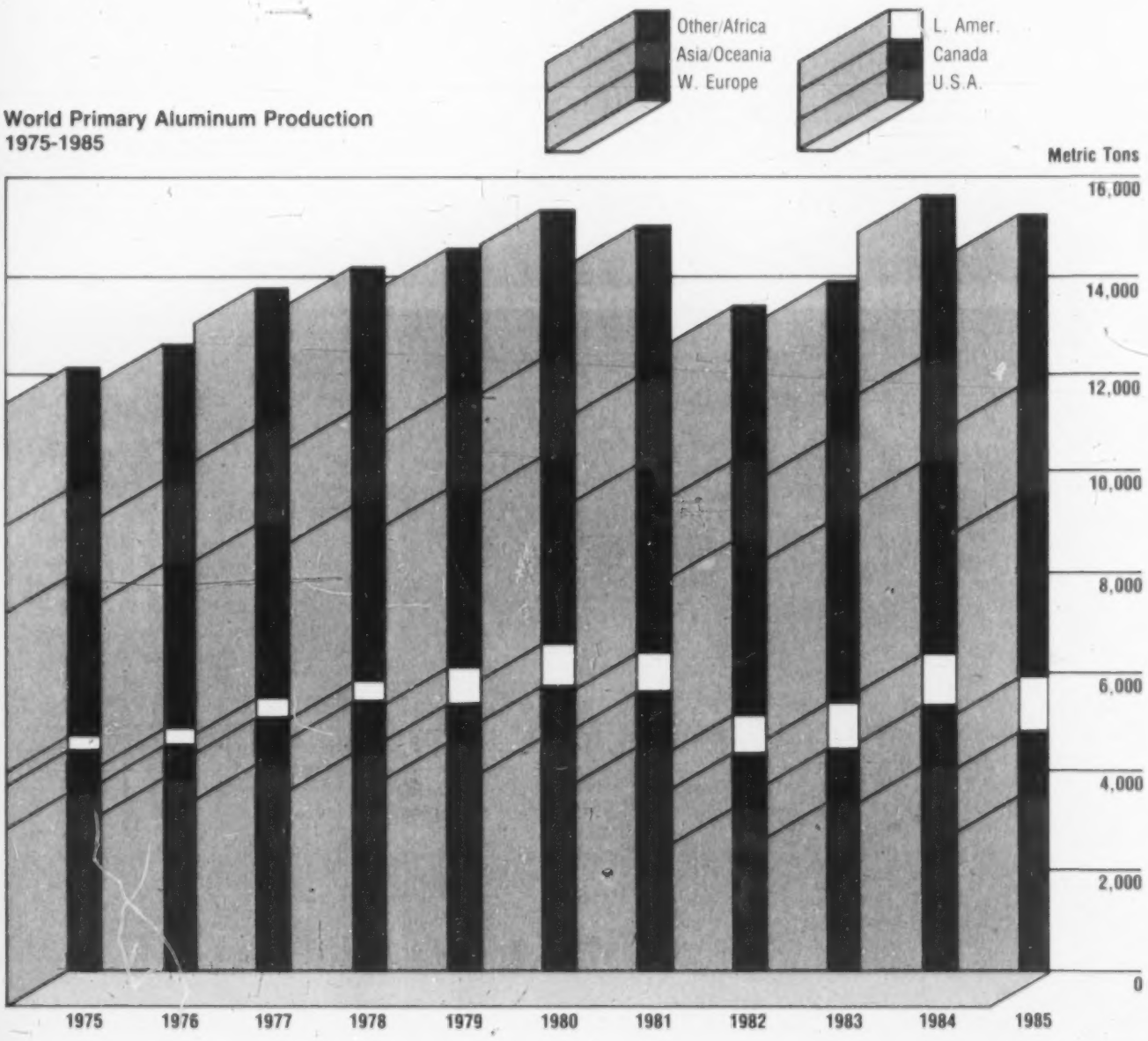
WORLD PRODUCTION DOWN 2.4 PERCENT

Estimated 1985 world production of primary aluminum totaled 15,289 thousand metric tons, down 2.4 percent from the revised estimate of 15,674 thousand tons in 1984 according to Bureau of Mines data.

Over the decade 1975-1985 world production increased 25.9 percent, an annual growth rate of 1.8 percent.

The United States accounted for 22.9 percent of the world's 1985 production while Europe accounted for 23.7 percent. The remaining 53.4 percent from Asia (7.5 percent), Canada (8.4 percent), South America (7.4 percent), Oceania (7.1 percent), Africa (3.0 percent), and others (19.9 percent).

World Primary Aluminum Production 1975-1985



World Primary Aluminum Production 1975-1985

Thousands of Metric Tons

Country	1985p	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
TOTAL WORLD[1]	15,289	15,644r	13,910r	13,408r	15,079r	15,383	14,555	14,131	13,779	12,622	12,145
AFRICA	466	406r	420r	500r	473r	437	400	342	376	347	273
Cameroon	75	73r	77r	79r	65r	43	44	49	55	58	52
Egypt	175	166	140	141	134	120	102	101	89	59	2
Ghana	48	—	42	174	190	188	169	112	153	152	143
South Africa	168	167r	161r	106r	84r	87	86	81	78	78	76
NORTH AMERICA	4,782	5,326r	4,444	4,339	5,605	5,722	5,377	5,407	5,091	4,490	4,406
Canada	1,282	1,227r	1,091	1,065	1,116	1,068	820	1,049	973	633	887
United States	3,500	4,099	3,353	3,274	4,489	4,654	4,557	4,358	4,118	3,856	3,519
LATIN AMERICA	1,138	1,042r	943r	795r	788r	821	693	408	361	318	286
Argentina	136	134	133	138	134	133	119	49	50	44	24
Brazil	540	455r	401	299	256	261	239	186	167	139	122
Mexico	43	44r	40	41	43	43	44	44	43	43	40
Suriname	23	23r	34r	43r	41	55	64	55	58	46	42
Venezuela	396	386r	335r	274	314	328	228	74	44	46	58
EAST ASIA[1]	245	305	269r	376r	820	1,174	1,089	1,129	1,237	963	1,060
Japan	227	287	256	351	771	1,091	1,011	1,058	1,188	919	1,013
Korea, Republic of	18	18	13	15	18	18	22	20	18	18	18
Taiwan	—	—	—	10	31	64	56	51	30	25	28
SOUTH ASIA[1]	893	880r	711r	651r	502r	386	383	395	373	398	350
Bahrain	177	177	172r	171	130r	126	126	122	122	122	116
India	268	269r	204	217	213	185	211	214	179	210	167
Indonesia	213	199r	115r	33r	—	—	—	—	—	—	—
Iran	42	42r	39r	45	13r	16	14	25	21	31	51
Turkey	38	38r	30r	36r	40	34	32	33	52	35	16
United Arab Imirates	155	155r	151	149	106	25	—	—	—	—	—
EUROPE	3,623	3,769r	3,582r	3,521r	3,723r	3,747	3,584	3,507	3,462	3,338	3,235
Austria	94	95r	94	94	94r	94	93	92	92	89	89
France	293	342	361	390	436	432	396	391	399	385	383
Germany, Fed. Rep.	745	777r	743	723	729	731	741	740	742	697	678
Greece	123	136	136	135r	146r	146	141	144	130	134	136
Iceland	74	80	76	75	74	73	73	73	74	65	62
Italy	245	230	196	233	274	271	269	270	260	207	191
Netherlands	253	249r	235	251	262	259	258	261	241	256	261
Norway	724	761	715	638r	634	653	664	639	622	618	595
Spain	370	381	358	367	397	386	259	212	211	210	210
Sweden	84	83	82	79	83	82	82	82	83	83	77
Switzerland	73	79	76	75	82	86	93	80	80	78	79
United Kingdom	275	288r	252	241	339	374	359	347	350	335	308
Yugoslavia	270	268r	258r	220r	173	161	168	176	177	182	166
OCEANIA	1,091	1,001r	697r	544r	533	458	424	415	393	372	323
Australia	851	758	478	381	379	303	269	263	248	232	214
New Zealand	240	243	219r	163r	154	155	154	152	145	140	109
OTHER	3,051	2,935r	2,844r	2,682	2,635r	2,638	2,605	2,529	2,488	2,397	2,212
China, P.R.[1]	410	400r	400r	380	350r	360	363	363	349	318	200
Czechoslavakia[1][2]	32	32r	36	34	33	38	37	37	36	36	44
German D.R.[1]	58	58	57	58	60	60	60	65	65	59	59
Hungary	74	74	74	74	74	73	72	72	72	71	70
Korea, Peop. Rep.	10	10	10	10	10	10	10	10	10	10	—
Poland[3]	47	46	44	43	66	95	96	100	104	103	103
Romania	220	215r	223	208	242r	241	217	213	209	203	204
U.S.S.R.[1]	2,200	2,100	2,000	1,875	1,800	1,760	1,751	1,669	1,642	1,597	1,533

Detail may not add due to rounding

(1) Estimated by the Bureau of Mines, U.S. Department of Interior
(2) Includes secondary unalloyed ingot
(3) Includes primary alloyed ingot

r-revised
p-preliminary

SOURCE: Bureau of Mines, U.S. Department of Interior
CONVERSION FACTOR: One metric ton = 2,204.5 pounds

Aluminum Supply and Apparent Consumption—Selected Countri

PER CAPITA CONSUMPTION UP 1.0 PERCENT

Per capita aluminum consumption for those countries which provided both 1984 and 1985 data, increased an average of 1.0% in 1985 as compared with 1984. Of the 33 countries which responded to the 1985 survey, 16 (48%) showed increased usage in 1985 while the remainder, 17 (52%) indicated decreased or steady usage.

The United States was again the largest user of aluminum on a per capita basis (58.7 pounds; 26.6 Kg.). Other large users were W. Germany (52.4 pounds; 23.7 Kg.) Japan (45.3 pounds; 20.6 Kg.), and Norway (45.0 pounds; 20.4 Kg.).

Per Capita Aluminum Consumption Formula

1. + Primary aluminum production
2. ± Government stockpile adjustment
3. + Imports of ingot
4. + Imports of mill products (aluminum alloy weight)
5. + Recovery of secondary aluminum alloys (from domestic and imported scrap)
6. − Exports of ingot
7. − Exports of mill products (aluminum alloy weight)
8. = Apparent aluminum consumption
9. + Beginning of year inventory
10. − End of year inventory
11. ± Inventory change
12. = Aluminum consumption (with inventory change)
13. ÷ Mid-year population
14. = Per capita consumption (Kg.) (without inventory change)
15. = Per capita consumption (Kg.) (with inventory change)

DESCRIPTION:

The Aluminum Association, in conjunction with industry associations in foreign countries, and, in some instances appropriate government agencies, is developing a joint program to compile uniform statistical data showing total supply and apparent consumption. Total supply for an individual country consists of primary production, imports, and secondary recovery. Apparent consumption is equal to the sum of these sources of total supply less exports and inventory changes. Production of primary aluminum for foreign countries is tabulated for the years 1975-1985 on page 45.

The tables on pages 48-61 show total supply and apparent consumption corresponding to the above format for the following countries:

Argentina
Australia
Austria
Bahrain
Belgium
Brazil
Cameroon
Canada
Denmark
Finland
France
Germany, F.R.
Greece
Iceland
Indonesia
Iran
Ireland
Israel
Italy
Japan
Korea, Rep.
Mexico
Netherlands
New Zealand
Nicaragua
Norway
Panama
Philippines
Portugal
El Salvador
Saudi Arabia
Singapore
South Africa
Spain
Sweden
Switzerland
Taiwan
Turkey
United Kingdom
United States
Venezuela

The format for compiling total supply and apparent consumption data is shown below.

In order to develop a basis for showing relative aluminum usage by country and to provide a measure of trend over time, per capita consumption data have been calculated for each country. For this purpose mid-year population estimates have been used. It is important to emphasize that these estimates are not the only way of measuring relative consumption data among countries. Obviously, the composition of a country's population, standard of living, industrialization, climate, availability and economies of other materials, and a number of other important considerations affect the per capita use of aluminum. The formula is used because it is simple and permits the Association to compile data for more countries, with their cooperation, than can be compiled using more detailed information.

When data for individual lines are not available or are not appropriate, they are omitted. Inventory changes cover suppliers' inventories only. Consumption estimates exclude changes in customer inventories.

The components of the formula are numbered and cross referenced to the country details on pages 41-61.

A summary of per capita consumption covering the years 1975-1985 for each of the countries is shown on page 47 in pounds.

Conversion factor: One metric ton = 2,204.6 pounds

Per Capita Aluminum Consumption of Selected Countries 1975-1985

Pounds per person per year [a]

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Argentina*	2.6	5.5	5.3	4.8	4.0	4.8	6.3	4.9	5.9	6.2	8.3
Australia*	39.8	36.6	33.8	36.7	41.4	38.9	37.6	32.5	31.3	31.0	26.7
Austria*	27.7	28.9	25.5	23.8	26.5	27.6	25.0	23.7	24.7	23.3	24.4
Bahrain*	23.8	22.0	18.9	10.8	13.2	20.3	27.5	15.1	22.5	23.7	24.9
Belgium	21.2	27.1	21.0	20.6	16.1	20.6	20.3	19.6	21.4	23.4	16.5
Brazil*	5.9	4.8r	4.9r	5.5	5.3	6.6	6.4	5.8	5.8	5.3	5.2
Cameroon	4.8	4.4	4.5	3.6	3.5	6.4	4.7	3.9	5.3	8.4	6.8
Canada*	44.7	43.4r	32.0r	37.2r	36.1	35.5	37.1	35.7	31.5	30.8	28.4
Denmark	20.4	21.5	30.2r	30.5	27.3	27.5	31.8	32.2	28.0	27.4	19.6
Finland	7.2	7.6r	11.5	14.6	14.1	14.3	16.5	12.0	19.3	20.6	21.3
France*	27.1	26.1r	27.2	27.3	26.0	30.1	28.1	25.4	26.0	26.5	20.5
Germany, F.R.*	52.4	49.1r	48.1	43.0	44.8	48.6	48.6	42.9	41.8	42.6	32.2
Greece	8.5e	11.4r	10.6	10.6r	13.0r	13.0r	9.4r	8.7	9.0	8.1	9.8
Iceland	17.3	19.3r	27.8r	23.4	34.1	21.9	20.4	15.9	18.9	18.2	16.5
Indonesia	na	na	na	na	na	na	0.6	0.6	0.6	0.5	2.9
Iran*	na	na	na	na	na	na	na	na	4.3*	4.2*	3.0*
Ireland	10.0	11.3r	8.3	8.8	9.1	9.6	10.9	10.6	7.9	9.1	4.1
Israel	na	na	na	na	na	na	na	na	9.4	9.9	na
Italy*	30.1	29.6r	29.3	27.1	27.6	32.4	28.0	24.7	24.3	21.8	15.2
Japan*	45.3	39.7	44.1	42.5	41.9	45.6	42.8	42.1r	35.4	35.8	26.9
Korea, Republic of	9.9	9.9r	9.3r	7.5	6.8	4.2	7.1	7.1	5.3	3.7	2.6
Mexico*	4.4	3.5	2.5	4.9	6.5	5.6	4.9	4.1	2.6	3.4	3.5
The Netherlands*	23.8	27.6r	23.6	25.4	20.1	27.2	26.0	23.0*	25.1*	29.1*	18.3*
New Zealand*	22.2	20.8	18.4	15.4	20.5	17.2	19.0	17.1	17.6	20.7	15.1
Nicaragua	na	na	na	na	na	na	na	0.5	1.3	1.0	1.4
Norway*	45.0	48.1	29.4	49.8	41.7	50.0	53.1	46.1	50.9	55.8	43.6
Panama	1.7	4.9	3.2	1.8	2.2	2.0	2.0	1.5	1.8	2.6	2.6
Philippines, Rep. of	na	0.5	0.8	1.1	0.4	0.8	1.5	0.8	1.0	1.0	0.5
Portugal	9.2	7.8r	11.5	11.9	11.9	8.5	7.6	8.6	6.9	5.6	2.7
El Salvador	0.1	0.5	1.2	0.5	0.6	0.4	1.0	1.0	0.4	1.1	0.4
Saudi Arabia	30.1	19.8	46.1	9.4	25.1	24.8	19.0	17.5	14.1	5.2	2.8
Singapore	25.8	26.1r	22.9	23.0	25.3	20.1	20.4	15.0	15.1	12.5	7.8
South Africa*	9.3	9.4r	9.2r	9.0	10.0	9.9	5.8	5.1	5.2	6.0	6.2
Spain*	10.8	9.7	11.8	12.1	11.3	14.2	12.8	12.5	14.1	13.4	11.6
Sweden*	42.5	43.9r	41.1	38.8	34.2	34.4	36.9	32.6	34.5	40.8	39.8
Switzerland*	42.2	40.1	33.0	33.3	34.0	37.7	31.4	29.8	28.6	27.9	22.2
Taiwan, Republic of China*	17.1	12.6	19.6	13.7	14.5	13.4	15.0	12.8	10.5	8.7	6.9
Turkey	7.9	6.9r	6.6r	5.7r	4.4r	2.1	2.4	2.5	4.3	3.4	3.7
United Kingdom	22.1	23.6	21.9	20.3	20.7	21.6	22.1	26.6	26.4	25.1	21.7
United States*	58.7	59.3	57.7	51.0	55.2	56.8	65.8	65.9	60.3	57.1	44.9
Venezuela*	na	5.0	5.8	13.9	9.0	15.2	14.8	11.3	9.7	8.1	6.1

*Adjusted for inventory change
r — Revised
na — Not available at publication time
e — Estimated

(a)—See individual country tables for kilogram measures

Per Capita Aluminum Consumption

ARGENTINA, REPUBLIC OF

Thousands of Metric Tons

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	136.2	133.7	132.8	137.5	134.1	133.1	118.4	49.4	52.4	43.1	23.7
3. + Imports of Ingot	—	—	—	—	—	—	—	—	0.1	20.2	48.6
4. + Imports of Mill Products	0.9	0.9	1.1	10.5	5.1	4.0	1.4	0.5	0.3	0.1	3.4
5. + Recovery of Secondary	3.6	7.5	7.0	6.0	5.0	7.0	8.0	8.0	8.8	14.4	16.6
6. – Exports of Ingot	66.1	30.1	43.8	67.6	88.2	63.4	21.3	7.5	—	—	—
7. – Exports of Mill Products	45.1	29.7	16.5	16.4	11.3	8.9	4.1	10.2	3.4	1.1	1.5
8. = Apparent Aluminum Consumption	29.5	82.3	80.6	70.0	44.7	71.8	92.4	40.3	58.2	76.7	90.7
11. + Inventory Change	–7.1	6.5	8.6	7.0	–6.8	10.0	6.0	–18.6	–12.0	4.1	–5.4
12. = Aluminum Consumption	36.6	75.8	72.0	63.0	51.5	61.8	86.4	58.9	70.2	72.7	96.2
13. Mid-Year Population (Millions)	30.6	30.1	29.6	29.2	28.7	26.24	27.79	26.5	26.1	25.7	25.4
14. = Per Capita Consumption (kg)[1]	1.0	2.7	2.7	2.4	1.6	2.5	3.3	1.5	2.2	3.0	3.6
15. = Per Capita Consumption (kg)[2]	1.2	2.5	2.4	2.2	1.8	2.2	3.1	2.2	2.7	2.8	3.8

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change

Source: Ministerio de Defensa (CAPEDESMEL)

AUSTRALIA

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	851.2	756.7	474.1	380.2	378.7	302.5	273.2	266.4	215.6	231.2	213.1
3. + Imports of Ingot	0.6	0.5	4.5	13.2	8.4	8.0	3.5	0.2	—	—	0.3
4. + Imports of Mill Products	10.2	8.7	6.4	13.1	14.4	10.7	8.1	3.6	4.1	4.4	4.2
5. + Recovery of Secondary	45.6	43.3	37.7	40.7	44.4	38.0	30.5	24.4	24.6	27.3	24.6
6. – Exports of Ingot	577.2	477.3	215.8	185.6	122.6	35.6	63.1	76.3	68.7	70.5	76.1
7. – Exports of Mill Products	54.0	58.8	49.5	32.6	25.4	18.4	16.1	4.8	3.3	1.4	1.5
8. = Apparent Aluminum Consumption	276.4	273.1	257.4	229.1	297.9	305.3	236.1	213.6	172.4	191.1	164.5
11. + Inventory Change	8.5	14.6	21.7	–23.7	–19.0	47.4	–9.7	3.8	5.1	1.0	5.7
12. = Aluminum Consumption	284.9	258.5	235.8	252.7	316.9	257.9	245.8	209.7	167.3	190.1	158.8
13. Mid-Year Population (Millions)	15.8	15.5	15.4	15.2	14.9	14.6	14.4	14.2	14.1	13.5	13.6
14. = Per Capita Consumption (kg)[1]	17.5	17.6	16.7	15.1	20.0	20.9	16.4	15.0	12.2	14.2	12.1
15. = Per Capita Consumption (kg)[2]	18.1	16.6	15.3	16.6	21.3	17.7	17.1	14.8	11.9	14.1	11.7

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change

Source: Aluminium Development Council—Australia

AUSTRIA

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	94.1	95.8	94.2	93.9	94.2	94.4	92.7	91.3	91.8	88.6	89.2
3. + Imports of Ingot	65.4	61.4	40.2	38.7	33.2	35.2	30.7	14.9	19.2	21.0	18.0
4. + Imports of Mill Products	54.9	52.3	48.5	42.4	37.6	39.2	36.8	29.9	29.0	24.4	17.3
5. + Recovery of Secondary	21.1	21.6	16.1	14.2	13.8	14.3	8.7	9.3	10.6	8.5	6.2
6. – Exports of Ingot	26.7	25.5	25.6	25.6	25.0	9.8	10.3	11.7	8.7	8.6	8.5
7. – Exports of Mill Products	110.1	100.0	101.4	78.6	69.1	66.4	74.3	67.7	56.3	60.1	36.8
8. = Apparent Aluminum Consumption	98.7	105.6	72.0	85.0	84.6	107.0	84.3	66.0	85.6	73.8	83.3
11. + Inventory Change	4.5	7.0	–14.7	3.8	–5.4	13.0	–0.6	–14.6	1.8	–5.5	0.0
12. = Aluminum Consumption	94.2	98.6	86.7	81.2	90.0	94.0	84.9	80.6	83.8	79.4	83.3
13. Mid-Year Population (Millions)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
14. = Per Capita Consumption (kg)[1]	13.2	14.1	9.6	11.3	11.3	14.3	11.2	8.8	11.4	9.8	11.1
15. = Per Capita Consumption (kg)[2]	12.6	13.1	11.6	10.8	12.0	12.5	11.3	10.8	11.2	10.6	11.1

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change

Source: Fachverband der Metallindustrie Osterreichs

Detail may not add to totals due to rounding.

BAHRAIN

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	175.5	175.8	171.7	171.0	142.0	126.1	127.1	123.1	124.1	123.1	117.0
5. + Recovery of Secondary	—	—	—	1.5	—	—	—	—	—	—	—
6. – Exports of Ingot	133.0	168.3	190.5	157.0	83.0	78.0	131.1	134.1	118.0	126.1	86.1
7. – Exports of Mill Products	15.2	13.2	18.0	12.0	15.0	17.0	6.0	5.0	3.0	3.0	2.0
8. = Apparent Aluminum Consumption	27.3	– 5.7	– 36.8	3.5	44.0	31.1	– 10.0	– 16.0	3.1	– 6.0	28.9
9. + Beginning Inventory	41.9	51.6	91.7	90.0	48.0	20.0	34.0	52.1	52.1	33.8	35.0
10. – Ending Inventory	64.7	41.9	51.6	91.7	90.0	48.0	20.0	34.0	52.1	52.1	61.1
11. = Inventory Change	22.8	– 9.7	– 40.1	1.7	42.0	27.9	– 14.0	– 18.1	0.0	18.2	26.0
12. = Aluminum Consumption	4.5	4.0	3.3	1.8	2.0	– 4.2	4.0	2.1	3.1	– 24.2	2.9
13. Mid-Year Population (Millions)	0.417	0.400	0.384	0.371	0.351	0.335	0.320	0.305	0.293	0.279	0.265
14. = Per Capita Consumption (kg)[1]	65.5	– 14.3	– 95.8	9.4	125.4	92.9	– 31.2	– 52.3	10.5	– 21.5	109.2
15. = Per Capita Consumption (kg)[2]	10.8	10.0	8.6	4.9	5.7	9.5	12.5	6.8	10.5	– 86.8	11.0

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change

Source: Aluminium Bahrain B.S.C.

BELGIUM

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
3. + Imports of Ingot	307.9	311.0	289.7	267.4	245.0	252.5	– 252.8	266.8	238.4	258.1	186.2
4. + Imports of Mill Products	95.7	93.8	90.5	86.9	62.9	64.9	87.1	76.8	75.3	78.3	53.5
5. + Recovery of Secondary	—	—	—	—	—	—	—	1.0	3.0	2.6	2.0
6. – Exports of Ingot	23.0	10.3	17.3	13.8	29.7	19.6	10.8	10.2	13.1	14.2	10.0
7. – Exports of Mill Products	285.5	280.6	269.1	248.5	206.3	205.1	245.4	232.3	219.4	210.1	167.6
8. = Apparent Aluminum Consumption	95.1	113.9	93.8	92.0	71.9	92.7	83.7	102.2	84.3	114.8	66.1
13. Mid-Year Population (Millions)	9.9	9.9	9.9	9.9	9.8	9.9	9.8	9.8	9.8	9.8	9.8
14. = Per Capita Consumption (kg)[1]	9.6	11.6	9.5	9.3	7.3	9.4	8.5	10.4	8.6	11.7	6.7

NOTES:
(1) Without Inventory Change

Source: Federation des Entreprises de Metaux Non Ferreux

BRAZIL

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	549.4	455.0	400.7	299.0	256.4	260.6	238.1	186.4	167.1	139.2	121.3
3. + Imports of Ingot	2.6	4.6	3.0	10.8	28.3	46.7	51.8	60.4	82.8	78.1	78.7
4. + Imports of Mill Products	3.8	5.0	2.8	3.9	8.7	22.3	27.3	14.8	29.3	15.4	15.6
5. + Recovery of Secondary	52.7	47.2	45.0	37.8	37.3	46.1	53.8	49.2	33.5	28.0	20.6
6. – Exports of Ingot	177.2	148.0	116.3	6.7	2.2	—	—	—	—	—	—
7. – Exports of Mill Products	36.5	57.3	53.3	11.7	18.6	11.5	8.6	3.9	2.8	1.8	1.8
8. = Apparent Aluminum Consumption	394.8	306.5	281.9	333.1	309.9	364.2	362.4	306.9	309.9	258.9	234.4
11. + Inventory Change	39.0	20.1r	– 7.9r	21.2	20.8	10.9	24.2	6.4	17.6		– 16.7
12. = Aluminum Consumption	355.8	286.4r	289.8r	311.9	289.1	353.3	338.2	300.5	292.3	258.9	251.1
13. Mid-Year Population (Millions)	135.6	132.6	129.6	126.8	124.0	119.1	116.3	113.5	110.8	108.1	105.5
14. = Per Capita Consumption (kg)[1]	2.9	2.3	2.2	2.6	2.5	3.1	3.1	2.7	2.8	2.4	2.2
15. = Per Capita Consumption (kg)[2]	2.6	2.2r	2.2r	2.5	2.3	3.0	2.9	2.6	2.6	2.4	2.4

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change
r—Revised

Source: Associacao Brasileira do Aluminio

Per Capita Aluminum Consumption—Continued

CAMEROON

Thousands of Metric Tons

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	81.6	73.1	77.4	78.9	65.4	43.0	44.6	41.3	40.2	48.7	51.9
3. + Imports of Ingot	—	—	—	—	—	—	0.8	0.1	—	—	—
4. + Imports of Mill Products	0.1	—	—	0.9	0.9	0.9	0.4	0.3	1.2	1.8	0.8
6. – Exports of Ingot	51.9	49.4	51.1	55.4	44.5	13.3	20.2	15.3	23.9	20.8	25.0
7. – Exports of Mill Products	8.9	6.7	9.8	10.7	7.0	5.1	10.0	10.1	5.4	4.4	7.2
8. = Apparent Aluminum Consumption	20.9	17.0	16.5	13.7	14.8	25.5	15.6	16.2	18.1	25.3	20.5
11. + Inventory Change	0.2	– 1.1	8.6	– 0.5	1.5	1.8	– 1.7	2.3	– 0.9	0.3	0.7
12. = Aluminum Consumption	20.7	18.1	7.9	14.2	13.2	23.7	17.3	14.0	19.0	25.0	19.8
13. Mid-Year Population (Millions)	9.61	9.16	8.87	8.65	8.50	8.25	8.06	7.91	7.91	8.53	8.40
14. = Per Capita Consumption (kg)[1]	2.2	1.9	1.9	1.6	1.7	3.1	1.9	2.1	2.3	3.9	3.2
15. = Per Capita Consumption (kg)[2]	2.2	2.0	– 0.9	1.6	1.6	2.9	2.1	1.8	2.4	3.8	3.1

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change

Source: Societe de Vente de l'Aluminium Pechiney

CANADA

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	1,282.0	1,223.0	1,094.0	1,070.0	1,118.1	1,074.0	863.3	1,050.5	976.4	631.0	675.9
3. + Imports of Ingot	60.0	39.0	31.0	24.0	14.3	9.9	24.0	11.5	20.8	22.6	18.2
4. + Imports of Mill Products	174.0	188.0	122.0	110.0	125.1	118.1	144.2	107.7	97.0	93.4	61.4
5. + Recovery of Secondary	74.0	70.0	56.0	50.0	65.0	65.1	84.5	74.8	48.3	42.6	38.9
6. – Exports of Ingot	1,051.0	834.0	925.0	896.0	725.5	784.7	550.5	862.6	655.3	507.5	508.9
7. – Exports of Mill Products	78.0	100.0	65.0r	42.0	40.5	39.6	36.1	39.8	43.5	28.2	24.4
8. = Apparent Aluminum Consumption	461.0	586.0	313.0r	318.0	556.6	442.8	529.3	342.2	443.6	253.8	465.1
11. + Inventory Change	– 54.0	92.0r	– 48.0r	– 99.0r	160.0	57.9	130.4	– 38.2	111.3	– 68.4	– 171.7
12. = Aluminum Consumption	515.0	494.0r	361.0r	415.0r	396.5	384.9	399.0	380.4	332.3	322.2	293.4
13. Mid-Year Population (Millions)	25.4	25.1	24.9	24.6	24.2	23.9	23.7	23.5	23.3	23.1	22.8
14. = Per Capita Consumption (kg)[1]	18.2	23.3	12.6r	12.8	23.0	18.5	22.3	14.6	19.0	11.0	20.4
15. = Per Capita Consumption (kg)[2]	20.3	19.7r	14.5r	16.9r	16.4	16.1	16.8	16.2	14.3	13.9	12.9

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change
r—Revised

Source: Aluminum Company of Canada, Ltd.

DENMARK

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
3. + Imports of Ingot	37.6	34.1	28.0	25.1	21.2	24.2	22.5	18.8	15.8	13.2	6.9
4. + Imports of Mill Products	66.2	65.9r	62.5r	43.9	40.5	45.4	49.3	58.1	54.0	56.8	39.6
5. + Recovery of Secondary	na	na	28.0	32.3	30.3	24.9	31.1	27.7	20.5	14.0	15.1
6. – Exports of Ingot	28.8	25.5	24.0	20.1	20.1	18.9	21.5	17.2	13.6	9.4	7.4
7. – Exports of Mill Products	27.7	24.7r	24.5r	10.4	8.4	11.4	8.3	12.5	12.1	11.5	9.2
8. = Apparent Aluminum Consumption	47.3	49.8r	70.0r	70.8	63.5	64.2	72.6	74.8	64.6	63.0	45.0
13. Mid-Year Population (Millions)	5.11	5.11	5.11	5.12	5.12	5.12	5.12	5.10	5.09	5.07	5.06
14. = Per Capita Consumption (kg)[1]	9.3	9.7r	13.7r	13.8	12.4	12.5	14.4	14.7	12.7	12.4	8.9

NOTES:
(1) Without Inventory Change
r—Revised

Source: Danmarks Statistik

Detail may not add to totals due to rounding

FINLAND

3.	+ Imports of Ingot	20.3	20.7	26.3	27.2	28.8	26.7	24.9	21.7	28.5	24.5	19.2
4.	+ Imports of Mill Products	22.6	24.5	24.0	22.4	21.9	28.8	26.9	20.3	29.6	31.6	26.6
5.	+ Recovery of Secondary	6.5	6.8	6.4	6.8	6.5	6.6	7.6	5.5	9.3	7.3	6.2
6.	- Exports of Ingot	16.0	13.6	10.7	6.3	4.6	3.9	1.3	2.7	3.3	1.2	0.5
7.	- Exports of Mill Products	17.5	21.5	19.7	18.1	22.0	27.1	22.3	19.0	22.7	18.0	16.1
8.	= Apparent Aluminum Consumption	15.9	15.9	25.3	32.0	30.8	31.1	35.7	25.8	41.5	44.2	35.5
13.	Mid-Year Population (Millions)	4.90	4.88	4.86	4.83	4.80	4.78	4.77	4.75	4.70	4.70	4.70
14.	= Per Capita Consumption (kg)[1]	3.2	3.5	5.2	6.6	6.4	6.5	7.5	5.4	8.8	9.4	7.5

NOTES:
(1) Without Inventory Change

Source: Central Statistical Office of Finland

FRANCE

1.	+ Primary Aluminum Production	293.2	341.5	380.9	398.4	435.6	431.9	395.1	391.4	398.8	385.1	362.6
3.	+ Imports of Ingot	396.1	365.0	394.6	352.0	300.4	332.4	315.3	291.1	275.3	251.4	217.9
4.	+ Imports of Mill Products	206.3	201.8	206.8	204.4	190.3	209.9	186.3	144.0	141.6	169.8	104.6
5.	+ Recovery of Secondary	170.1	174.0r	170.0	153.7	169.8	175.0	165.7	160.8	152.5	137.0	114.0
6.	- Exports of Ingot	115.4	146.6	160.7	162.7	190.5	177.4	157.6	198.9	165.8	149.2	163.9
7.	- Exports of Mill Products	275.5	290.8	294.6	293.0	249.5	230.0	256.9	214.6	188.2	161.5	138.9
8.	= Apparent Aluminum Consumption	674.8	664.9r	677.0	654.8	657.2	736.9	645.0	606.2	614.2	632.6	526.3
11.	+ Inventory Change	0.8	6.2	5.0	- 18.1	22.0	3.8	- 36.2	- 6.1	- 10.7	- 3.8	37.1
12.	= Aluminum Consumption	674.0	648.7r	672.0	672.9	635.1	733.1	681.2	612.3	624.9	636.4	489.2
13.	Mid-Year Population (Millions)	54.9	54.7	54.4	54.3	53.9	53.7	53.5	53.1	53.0	52.9	52.7
14.	= Per Capita Consumption (kg)[1]	12.3	12.0r	12.4	12.1	12.2	13.7	12.1	11.4	11.8	12.0	10.1
15.	= Per Capita Consumption (kg)[2]	12.3	11.9r	12.4	12.4	11.8	13.7	12.7	11.5	11.8	12.0	9.4

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change
r—Revised

Source: Société de Vente de l'Aluminium Pechiney

GERMANY, FEDERAL REPUBLIC OF

1.	+ Primary Aluminum Production	745.3	777.2	743.3	722.8	728.9	730.7	741.9	730.6	741.8	697.1	677.8
3.	+ Imports of Ingot	721.7	722.7r	592.1	565.3	500.0	606.8	511.5	434.0	440.4	417.2	287.8
4.	+ Imports of Mill Products	327.9	304.7r	299.0	262.3	240.1	294.1	262.3	205.5	213.8	200.1	137.3
5.	+ Recovery of Secondary	496.2	480.8	498.9	398.1	413.4	425.0	425.4	394.4	354.2	325.8	269.3
6.	- Exports of Ingot	281.7	294.3r	321.1	255.4	253.0	223.7	242.8	221.5	186.1	281.4	159.8
7.	- Exports of Mill Products	558.5	558.3r	512.9	449.7	436.9	387.9	387.9	348.2	361.9	274.6	180.0
8.	= Apparent Aluminum Consumption	1.452.9	1.432.8r	1.259.3	1.243.3	1.202.6	1.437.1	1.267.7	1.153.7	1.249.2	1.079.2	1.030.1
9.	+ Beginning Inventory	253.5	302.7	221.3	269.3	240.1	325.9	269.7	229.6	315.4	205.3	322.5
10.	- Ending Inventory	257.8	253.5	302.7	221.3	269.3	240.1	325.9	269.7	229.6	315.4	205.3
11.	= Inventory Change	4.3	49.2	- 81.4	48.0	- 29.2	85.8	- 56.2	- 40.1	85.7	- 110.0	117.2
12.	= Aluminum Consumption	1.448.6	1.383.6r	1.340.7	1.195.3	1.231.8	1.351.3	1.323.9	1.193.8	1.163.5	1.189.2	912.9
13.	Mid-Year Population (Millions)	61.0	61.2	61.4	61.3	61.7	61.3	61.4	61.3	61.4	61.5	61.8
14.	= Per Capita Consumption (kg)[1]	23.8	23.4r	20.5	20.3	19.8	23.4	21.1	19.8	20.3	17.5	16.5
15.	= Per Capita Consumption (kg)[2]	23.7	22.6r	21.8	19.5	20.3	22.0	21.1	19.5	18.9	19.3	14.8

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change
r—Revised

Source: Aluminium-Zentrale e.V.

Detail may not add to totals due to rounding

GREECE

Thousands of Metric Tons

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	123.0e	136.0r	136.2r	134.9r	146.1r	145.6	140.8	145.6	131.4	134.3	135.7
3. + Imports of Ingot	3.6	6.5	2.1	4.0	2.8	0.1	0.3	0.3	4.5	3.6	0.9
4. + Imports of Mill Products	4.7	5.5	5.3	4.1	4.4	3.9	3.5	3.0	3.8	2.5	1.8
6. – Exports of Ingot	43.2	48.4	55.1	66.6	69.2	60.2	74.0	85.2	77.5	88.9	89.1
7. – Exports of Mill Products	49.8	48.5	40.6	29.5	26.9	32.7	30.0	26.5	24.2	18.0	9.2
8. = Apparent Aluminum Consumption	38.3e	51.1r	47.8r	46.9r	57.2r	56.7	40.6	37.2	38.0	33.6	40.2
13. Mid-Year Population (Millions)	9.9	9.9	9.9	9.8	9.7	9.6	9.5	9.4	9.3	9.2	9.1
14. = Per Capita Consumption (kg)[1]	3.9e	5.2r	4.9r	4.8r	5.9r	5.9	4.3	4.0	4.1	3.6	4.4

NOTES:
(1) Without Inventory Change
r—Revised
e—Estimated

Source: National Statistical Service of Greece and Societe de Vente de l'Aluminium Pechiney

ICELAND

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	75.4	80.4	76.1	75.2	73.7	73.1	71.9	73.8	70.7	65.2	58.9
4. + Imports of Mill Products	1.9	2.1	3.0	2.5	2.9	2.3	1.8	2.9	1.9	1.8	1.5
7. – Exports of Mill Products	72.1	79.9	106.9	61.5	64.1	67.4	77.2	75.8	74.2	77.6	43.6
8. = Apparent Aluminum Consumption	5.2	2.6	-27.8	16.2	12.5	8.0	-4.4	0.8	-1.6	-10.5	16.8
9. + Beginning Inventory	3.5	3.0	33.8	20.1	10.5	4.8	11.3	12.0	16.1	27.9	12.7
10. – Ending Inventory	6.8	3.5	3.0	33.8	20.1	10.5	4.8	11.3	12.0	15.5	27.9
11. – Inventory Change	3.3	0.5	-30.8	13.7	9.6	5.7	-6.5	-0.6	-4.1	-12.4	15.2
12. = Aluminum Consumption	1.9	2.1	3.0	2.5	2.9	2.3	2.2	1.5	2.4	1.9	1.5
13. Mid-Year Population (Millions)	0.242	0.240	0.238	0.235	0.229	0.228	0.226	0.223	0.222	0.220	0.218
14. = Per Capita Consumption (kg)[2]	21.5	10.8	-116.8	68.9	54.6	35.1	-19.3	3.7	-7.4	-47.8	77.0
15. = Per Capita Consumption (kg)[1]	7.9	8.7	12.6	10.6	12.7	10.1	9.6	6.5	11.0	8.7	7.1

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change

Source: Icelandic Aluminum Co. Ltd.

INDONESIA

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
3. + Imports of Ingot	na	na	na	na	na	na	15.2	42.2	11.7	8.4	7.0
4. + Imports of Mill Products	na	na	na	na	na	na	25.3	21.6	22.0	20.9	20.2
5. + Recovery of Secondary	na	na	na	na	na	na	—	*	*	*	147.5
7. + Exports of Mill Products	na	na	na	na	na	na	0.2	0.1	0.2	0.2	
8. = Apparent Aluminum Consumption	na	na	na	na	na	na	40.3	33.9	33.5	29.1	174.7
13. Mid-Year Population (Millions)	na	na	na	na	na	na	136.0	135.3	132.6	130.2	132.0
14. = Per Capita Consumption (kg)	na	na	na	na	na	na	0.3	0.3	0.3	0.2	1.3

NOTES:
(1) Without Inventory Change
na—Not received at publication time
**—Less than 50 metric tons*

Source: Department of Mines and Energy, Indonesia

Totals may not add in totals due to rounding

IRAN

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	na	na	na	na	na	na	na	na	21.0	30.7	41.1
3. + Imports of Ingot	na	na	na	na	na	na	na	na	13.0	10.0	—
4. + Imports of Mill Products	na	na	na	na	na	na	na	na	17.0	19.0	2.7
5. + Recovery of Secondary	na	na	na	na	na	na	na	na	5.0	6.5	15.4
6. – Exports of Ingot	na	na	na	na	na	na	na	na	—	—	12.7
7. – Exports of Mill Products	na	na	na	na	na	na	na	na	—	—	—
8. = Apparent Aluminum Consumption	na	na	na	na	na	na	na	na	56.0	66.1	46.5
9. + Beginning Inventory	na	na	na	na	na	na	na	na	12.6	10.6	8.5
10. – Ending Inventory	na	na	na	na	na	na	na	na	3.0	12.6	9.6
11. = Inventory Change	na	na	na	na	na	na	na	na	9.6	2.0	1.1
12. = Aluminum Consumption	na	na	na	na	na	na	na	na	65.6	64.1	45.5
13. Mid-Year Population (Millions)	na	na	na	na	na	na	na	na	33.5	34.0	33.5
14. = Per Capita Consumption (kg)[1]	na	na	na	na	na	na	na	na	na,	1.7	1.9	1.4
15. = Per Capita Consumption (kg)[2]	na	na	na	na	na	na	na	na	2.0	1.9	1.4

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change

Source: Industrial Development and Renovation Organization of Iran

IRISH REPUBLIC

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
3. + Imports[1]	42.3	42.4r	36.2	30.8	28.6	31.2	29.8	25.5	20.7	20.8	14.0
6. – Exports[1]	26.2	24.2r	23.0	16.9	14.5	16.3	13.0	9.6	9.4	7.5	8.0
8. = Apparent Aluminum Consumption	16.1	18.2r	13.2	13.9	14.1	14.9	16.8	15.9	11.2	13.2	6.0
13. Mid-Year Population (Millions)	3.56	3.54	3.51	3.48	3.40	3.40	3.40	3.30	3.20	3.20	3.20
14. = Per Capita Consumption (kg)[2]	4.5	5.1r	3.8	4.0	4.1	4.4	4.9	4.8	3.5	4.1	1.9

NOTES:
(1) Includes ingot and mill products
(2) Withdrawals Inventory Change
r—Revised

Source: Central Statistics Office, Dublin

ISRAEL

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
3. + Imports of Ingot	na	na	na	na	na	na	na	na	17.0	14.5	na
4. + Imports of Mill Products	na	na	na	na	na	na	na	na	11.0	13.7	na
5. + Recovery of Secondary	na	na	na	na	na	na	na	na	1.0	1.0	na
6. – Exports of Ingot	na	na	na	na	na	na	na	na	4.0	5.2	na
7. – Exports of Mill Products	na	na	na	na	na	na	na	na	9.5	8.0	na
8. = Apparent Aluminum Consumption	na	na	na	na	na	na	na	na	15.4	16.1	na
13. Mid-Year Population (Millions)	na	na	na	na	na	na	na	na	3.6	3.6	na
14. = Per Capita Consumption (kg)[1]	na	na	na	na	na	na	na	na	4.3	4.5	na

NOTES:
(1) Without Inventory Change
na—Not received at publication time

Source: The Israel Aluminium Association

Detail may not add to totals due to rounding

Per Capita Aluminum Consumption—Continued

ITALY

Thousands of Metric Tons

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	224.1	230.2	195.7	232.9	273.8	271.2	269.1	270.8	260.1	206.5	190.1
3. + Imports of Ingot	319.9	291.8	254.5	211.2	208.8	294.8	236.6	190.5	195.5	196.4	111.0
4. + Imports of Mill Products	109.7	106.1r	110.3	83.3	81.6	111.6	90.2	60.7	59.0	49.4	35.5
5. + Recovery of Secondary	282.0	283.0r	333.0	283.0	287.0	298.0	258.0	238.0	237.0	205.9	159.0
6. – Exports of Ingot	43.8	32.2	41.3	54.1	49.8	11.8	22.4	69.3	24.2	9.4	33.3
7. – Exports of Mill Products	103.0	94.0r	112.2	100.9	93.8	86.4	109.9	105.7	86.8	83.2	58.7
8. = Apparent Aluminum Consumption	788.9	784.9r	740.0	655.4	707.6	877.4	721.6	585.0	640.5	565.5	403.7
11. + Inventory Change	9.2	19.8r	– 13.1	– 38.0	4.8	57.3	10.3	– 38.0	32.4	9.6	18.1
12. = Aluminum Consumption	779.7	765.1r	753.1	693.5	702.8	820.1	711.2	623.0	608.1	555.9	385.6
13. Mid-Year Population (Millions)	57.1	57.0	56.8	56.3	56.1	55.9	55.8	55.7	55.4	56.2	55.8
14. = Per Capita Consumption (kg)(1)	13.8	13.8r	13.0	11.6	12.6	15.7	12.9	10.5	11.6	10.1	7.2
15. = Per Capita Consumption (kg)(2)	13.7	13.4r	13.3	12.3	12.5	14.7	12.7	11.2	11.0	9.9	6.9

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change
r— Revised

Source: Associazione Nazionale Industrie Metalli Non Ferrosi

JAPAN

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	231.3	291.1	258.6	355.1	776.8	1,095.7	1,014.2	1,061.8	1,192.9	923.3	1,016.1
2. ± Stockpile Adjustment	108.8	22.0	– 63.5	– 60.2	– 22.0	= m	22.0	– 12.3	9.5	9.5	—
3. + Imports of Ingot	1,575.5	1,347.8	1,603.7	1,446.6	1,129.3	910.1	748.4	740.2	533.8	430.1	378.4
4. + Imports of Mill Products	32.6	39.0	33.6	27.6	30.0	44.9	32.1	26.9	21.7	20.8	21.9
5. + Secondary Recovery	803.4	692.8	700.0	560.5	550.1	563.0	476.1	494.4	391.7	296.2	205.2
6. – Exports of Ingot	2.2	2.3	1.7	6.7	12.2	7.6	8.0	54.6	99.6	78.7	83.6
7. – Exports of Mill Products	243.9	228.1r	197.0	154.9	113.9	73.9	98.4	148.5	86.6	66.2	51.3
8. = Apparent Aluminum Consumption	2,505.5	2,162.3r	2,333.7	2,167.9	2,338.1	2,533.1	2,186.5	2,107.8	1,963.3	1,534.9	1,486.7
9. + Beginning Inventory	125.4	168.9	185.4	308.0	210.8	105.5	171.3	258.2	122.1	401.3	265.4
10. – Ending Inventory	142.5	125.4	128.9	185.4	308.0	210.8	105.5	171.3	258.2	122.1	401.3
11. = Inventory Change	17.1	– 3.5	– 56.5	– 122.6	97.2	105.3	– 65.8	– 86.9	136.1	– 279.2	135.9
12. = Aluminum Consumption	2,488.4	2,165.8r	2,390.2	2,290.5	2,241.0	2,427.7	2,252.3	2,194.7	1,827.3	1,814.1	1,350.8
13. Mid-Year Population (Millions)	121.0	120.2	119.5	118.8	117.9	117.1	116.1	114.9	113.9	112.4	111.0
14. = Per Capita Consumption (kg)(1)	20.7	18.0r	19.5	18.2	19.8	21.6	18.8	18.3	17.2	13.7	13.4
15. = Per Capita Consumption (kg)(2)	20.6	18.0r	20.0	19.3	19.0	20.7	19.4	19.1	16.0	16.1	12.2

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change
r—Revised

Source: Japan Aluminium Federation

KOREA, REPUBLIC OF

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	17.1	17.1	12.6	14.8	17.2	17.6	17.6	17.7	17.3	17.6	17.7
3. + Imports of Ingot	160.4	143.2	134.3	105.0	98.6	63.6	80.6	85.6	62.4	32.4	16.5
4. + Imports of Mill Products	30.9	34.6	31.7	24.0	17.0	20.0	22.6	20.4	15.8	12.0	9.0
5. + Recovery of Secondary	10.3	9.8	10.7	13.3	11.5	7.8	10.2	8.9	7.3	6.8	1.7
6. – Exports of Ingot	0.7	0.2	0.2	—	—	1.5	0.6	1.0	—	—	—
7. – Exports of Mill Products	33.5	21.3	20.9	24.0	25.7	35.0	9.0	13.0	15.0	8.0	2.7
8. = Apparent Aluminum Consumption	184.5	183.2	168.2	133.1	118.6	72.5	121.4	118.6	87.8	60.8	42.2
13. Mid-Year Population (Millions)	41.1	40.6	40.0	39.3	38.7	38.2	37.6	37.0	36.4	35.9	35.3
14. = Per Capita Consumption (kg)(1)	4.5	4.5	4.2	3.4	3.1	1.9	3.2	3.2	2.4	1.7	1.2

NOTES:
(1) Without Inventory Change

—Less than 50 metric tons

Detail may not add to totals due to rounding.

SOURCE: Ministry of Commerce and Industry

MEXICO

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	42.7	44.0	39.7	41.2	43.2	42.6	43.2	43.1	42.7	42.4	39.9
3. + Imports of Ingot	35.7	26.0	10.8	32.3	58.8	63.5	56.1	39.4	8.4	15.6	11.9
4. + Imports of Mill Products	68.7	34.5	12.9	62.2	82.9	49.4	36.4	29.2	16.3	30.8	33.2
5. + Recovery of Secondary	22.1	19.6	15.1	25.8	20.3	17.1	14.9	12.2	7.4	9.8	9.3
6. – Exports of Ingot	0.2	0.6	0.6	0.2	*	*	= m	= m	0.1	0.1	0.1
7. – Exports of Mill Products	16.9	7.5	1.7	1.1	3.1	3.4	3.1	3.7	2.4	1.5	1.1
8. = Apparent Aluminum Consumption	152.1	116.0	76.4	160.2	202.1	169.3	147.4	120.2	72.4	96.9	93.2
9. + Beginning Inventory	6.0	7.5	13.4	4.5	2.0	1.5	1.8	2.5	4.4	2.0	1.2
10. – Ending Inventory	8.2	6.0	7.5	13.4	4.5	2.0	1.5	1.8	2.5	4.4	2.0
11. = Inventory Change	2.2	–1.5	–5.9	8.9	2.5	0.5	–0.3	–0.7	–1.8	2.4	0.8
12. = Aluminum Consumption	149.9	117.5	82.2	151.2	199.6	168.8	147.7	120.9	74.2	94.5	92.4
13. Mid-Year Population (Millions)	75.0	73.0	72.0	70.0	68.0	67.0	67.0	64.7	62.5	60.4	58.3
14. = Per Capita Consumption (kg)(1)	2.0	1.6	1.1	2.3	3.0	2.5	2.2	1.9	1.2	1.6	1.6
15. = Per Capita Consumption (kg)(2)	2.0	1.6	1.1	2.2	2.9	2.5	2.2	1.9	1.2	1.6	1.6

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change
**—Less than 50 metric tons*

Source: Instituto Mexicano del Aluminio, A.C.

NETHERLANDS

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	250.6	249.2	235.4	250.9	262.1	258.2	255.6	259.3	236.9	248.9	257.6
3. + Imports of Ingot	133.4	133.0	129.0	195.5	161.3	215.8	167.8	145.5	162.3	162.1	121.4
4. + Imports of Mill Products	126.0	120.5r	115.7	105.4	92.4	113.3	106.5	83.0	91.7	95.1	58.3
5. + Recovery of Secondary	62.3	59.9	58.2	49.8	50.2	53.4	46.6	44.0	41.6	38.5	34.3
6. – Exports of Ingot	296.8	279.0	277.3	350.8	352.0	365.3	359.4	294.4	316.2	290.3	264.2
7. – Exports of Mill Products	119.4	107.3	106.8	84.1	86.5	98.7	88.3	67.7	76.7	80.4	54.6
8. = Apparent Aluminum Consumption	156.1	176.3r	154.2	166.7	127.6	176.7	128.8	169.7	139.7	173.9	152.9
9. + Beginning Inventory	6.8	10.7	10.7	7.8	10.3	7.9	43.7	35.4	54.2	64.3	21.1
10. – Ending Inventory	6.4	6.8	11.5	9.6	8.7	10.3	7.7	60.0	35.3	56.4	59.6
11. = Inventory Change	–0.4	–3.9	0.8	1.8	–1.6	2.4	–36.0	24.6	–18.9	–7.9	38.5
12. = Aluminum Consumption	156.5	180.2r	153.4	164.9	129.2	174.3	164.8	145.2	158.6	181.8	114.4
13. Mid-Year Population (Millions)	14.5	14.4	14.4	14.3	14.2	14.1	14.0	13.9	13.9	13.8	13.7
14. = Per Capita Consumption (kg)(1)	10.8	12.2r	10.7	11.7	9.0	12.5	9.2	12.2	10.1	12.6	11.2
15. = Per Capita Consumption (kg)(2)	10.8	12.5r	10.7	11.5	9.1	12.4	11.8	10.4	11.4	13.2	8.4

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change
r—Revised

Source: Vereniging Nederlands Aluminium Instituut

NEW ZEALAND

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	241.6	241.6	220.1	163.1	154.3	154.5	154.1	149.9	143.6	138.4	108.0
3. + Imports of Ingot	0.5	1.4	6.6	7.2	3.4	= m	= m	= m	= m	= m	1.3
4. + Imports of Mill Products	3.7	3.6	2.9	3.1	2.6	2.4	3.4	2.8	3.4	2.1	4.0
5. + Recovery of Secondary	4.0	3.7	3.0	2.7	3.0	2.0	2.0	1.8	1.8	1.5	1.2
6. – Exports of Ingot	224.6	212.8	210.4	140.2	124.8	126.2	118.6	134.1	121.9	108.1	96.3
7. – Exports of Mill Products	9.5	6.2	5.4	7.7	5.7	5.4	2.7	1.9	1.2	0.5	0.2
8. = Apparent Aluminum Consumption	15.7	31.3	16.8	28.2	32.8	27.4	38.2	18.5	25.7	33.5	17.9
9. + Beginning Inventory	32.5	31.8	41.6	35.6	31.9	–28.6	39.7	–45.5	46.1	–41.8	38.6
10. – Ending Inventory	15.2	32.5	31.8	41.6	35.6	31.9	–28.6	39.7	–45.5	46.1	–41.8
11. = Inventory Change	–17.3	0.7	–9.8	6.0	3.7	3.3	11.1	–5.8	0.5	4.3	–3.2
12. = Aluminum Consumption	33.0	30.6	26.6	22.2	29.1	24.1	27.1	24.3	25.1	29.2	21.0
13. Mid-Year Population (Millions)	3.27	3.23	3.19	3.16	3.13	3.10	3.15	3.13	3.13	3.12	3.09
14. = Per Capita Consumption (kg)(1)	4.8	9.7	5.3	8.9	10.5	8.8	12.1	5.9	8.2	10.7	5.8
15. = Per Capita Consumption (kg)(2)	10.1	9.5	8.3	7.0	9.3	7.8	8.6	7.8	8.0	9.4	6.8

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change

Detail may not add to totals due to rounding.

Source: Comalco Limited

Per Capita Aluminum Consumption—Continued

NICARAGUA

Thousands of Metric Tons

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
3. + Imports of Ingot	na	na	na	na	na	na	na	0.5	1.2	0.5	0.5
4. + Imports of Mill Products	na	na	na	na	na	na	na	0.9	1.3	0.9	1.1
6. – Exports of Ingot	na	na	na	na	na	na	na	0.8	1.0	0.3	0.1
8. = Apparent Aluminum Consumption	na	na	na	na	na	na	na	0.6	1.5	1.2	1.5
13. Mid-Year Population (Millions)	na	na	na	na	na	na	na	2.4	2.3	2.2	2.2
14. = Per Capita Consumption (kg)[1]	na	na	na	na	na	na	na	0.3	0.6	0.5	0.7

NOTES:
(1) Without Inventory Change
na—Not received at publication time

Source: Ministerio de Economia Industria y Comercio, Managua

NORWAY

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	724.1	760.8	715.4	645.1	636.1	662.0	673.5	656.9	636.9	620.8	595.0
3. + Imports of Ingot	34.7	31.6	11.2	21.0	14.8	16.4	8.9	8.0	8.5	31.8	19.3
4. + Imports of Mill Products	46.0	51.8	42.4	37.2	38.5	42.5	29.9	34.4	40.4	28.3	27.1
5. + Recovery of Secondary	—	2.3	0.7	2.8	2.8	3.5	3.6	4.0	4.0	5.0	7.0
6. – Exports of Ingot	643.8	638.7	637.4	545.4	524.0	521.2	565.3	630.1	555.3	561.6	451.6
7. – Exports of Mill Products	91.7	91.8	105.1	76.8	74.9	71.6	72.7	61.1	47.4	54.1	42.6
8. = Apparent Aluminum Consumption	69.3	116.0	27.2	83.8	93.3	131.7	78.0	12.1	87.2	70.1	154.2
11. + Inventory Change	–14.3	26.8	–27.4	–28.4	15.8	38.7	–18.5	–71.4	–5.2	–31.0	74.9
12. = Aluminum Consumption	83.6	89.2	54.6	112.2	77.5	93.0	96.5	83.5	92.4	101.2	79.3
13. Mid-Year Population (Millions)	4.1	4.1	4.1	4.1	4.1	4.1	4.0	4.0	4.0	4.0	4.0
14. = Per Capita Consumption (kg)[1]	16.9	28.3	6.6	20.4	22.7	32.1	19.5	3.0	21.8	17.5	38.6
15. = Per Capita Consumption (kg)[2]	20.4	21.8	13.3	27.4	18.9	22.7	24.1	20.9	23.1	25.3	19.8

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change

Source: Skan Aluminium

PANAMA

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
3. + Imports of Ingot	1.4	1.2	1.2	1.2	1.6	1.6	1.4	0.9	1.0	1.6	1.5
4. + Imports of Mill Products	0.4	3.6	1.6	0.1	0.2	0.1	0.3	0.3	0.3	0.3	0.4
5. + Secondary Recovery	0.7	0.6	0.6	0.6	0.5	0.4	0.4	0.3	0.5	0.4	0.3
6. – Exports of Ingot	0.4	0.3	0.2	—	—	—	—	—	—	—	—
7. – Exports of Mill Products	0.5	0.4	0.2	0.3	0.2	0.3	0.3	0.2	0.4	0.3	0.2
8. = Apparent Aluminum Consumption	1.7	4.7	3.0	1.6	2.0	1.8	1.7	1.3	1.5	2.0	2.0
13. Mid-Year Population (Millions)	2.20	2.14	2.10	2.00	1.98	1.95	1.90	1.90	1.80	1.70	1.60
14. = Per Capita Consumption (kg)[1]	0.8	2.2	1.4	0.8	1.0	0.9	0.9	0.7	0.8	1.2	1.2

NOTES:
(1) Without Inventory Change

Source: Aluminio de Panama, S.A.

Detail may not add to totals due to rounding.

PHILIPPINES, REPUBLIC OF

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
3. + Imports of Ingot	na	6.6	14.8	18.5	10.4	17.6	28.4	16.8	17.0	17.4	6.2
4. + Imports of Mill Products	na	7.4	8.9	13.6	4.4	5.5	7.9	4.3	3.6	2.3	4.5
6. – Exports of Ingot	na	—	—	*	*	*	—	—	—	0.2	0.1
7. – Exports of Mill Products	na	1.5	3.8	6.2	4.7	5.6	2.9	3.4	0.8	0.3	1.7
8. = Apparent Aluminum Consumption	na	12.5	20.0	25.9	10.1	17.5	33.4	17.6	19.8	19.2	8.9
13. Mid-Year Population (Millions)	na	53.4	52.1	50.8	49.5	48.3	47.1	45.9	44.7	43.5	42.2
14. = Per Capita Consumption (kg)[1]	na	0.2	0.4	0.5	0.2	0.4	0.7	0.4	0.4	0.4	0.2

NOTES:
(1) Without Inventory Change
**—Less than 50 metric tons*
na—Not received at publication time

Source: National Census and Statistics Office

PORTUGAL

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
3. + Imports of Ingot	33.9	26.0	43.0	49.5	42.5	27.5	21.8	20.2	8.4	5.7	2.6
4. + Imports of Mill Products	15.0	12.7	15.3	14.5	15.4	16.6	14.9	16.6	26.4	20.0	12.2
5. + Recovery of Secondary	2.1	2.0	2.4	1.9	1.9	2.7	3.8	3.1	2.1	2.0	2.0
6. – Exports of Ingot	2.0	0.8	0.4	0.5	0.4	0.3	0.9	0.2	0.1	0.1	—
7. – Exports of Mill Products	7.0	4.0	8.0	11.7	6.1	8.6	6.0	1.5	6.3	3.0	5.1
8. = Apparent Aluminum Consumption	42.0	35.9	52.3	53.7	53.3	37.9	33.6	38.2	30.6	24.6	11.7
13. Mid-Year Population (Millions)	10.1	10.1	10.0	9.9	9.9	9.8	9.8	9.8	9.7	9.7	9.4
14. = Per Capita Consumption (kg)[1]	4.2	3.6	5.2	5.4	5.4	3.9	3.4	3.9	3.2	2.5	1.2

NOTES:
(1) Without Inventory Change

Source: National Statistical Institute

EL SALVADOR

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
3. + Imports of Ingot	0.5	1.2	1.1	0.9	1.3	1.6	2.4	2.4	2.0	1.7	1.3
4. + Imports of Mill Products	—	0.3	1.9	—	0.8	0.4	1.2	2.0	0.6	1.7	0.6
5. + Recovery of Secondary	0.5	0.5	0.5	0.6	0.6	0.7	0.9	1.0	1.7	0.7	0.5
7. – Exports of Mill Products	0.8	1.1	1.0	0.4	1.3	1.9	2.4	3.3	2.6	2.1	1.6
8. = Apparent Aluminum Consumption	0.2	1.0	2.5	1.2	1.5	0.8	2.1	2.2	1.7	2.1	0.8
13. Mid-Year Population (Millions)	4.85	4.78	4.83	4.74	4.60	4.50	4.40	4.40	4.30	4.10	4.00
14. = Per Capita Consumption (kg)[1]	0.04	0.20	0.52	0.25	0.32	0.18	0.47	0.49	0.40	0.51	0.20

NOTES:
(1) Without Inventory Change

Source: Aluminio de Centro America, S.A.

Detail may not add to totals due to rounding

Per Capita Aluminum Consumption—Continued

KINGDOM OF SAUDI ARABIA

Thousands of Metric Tons

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	—	—	—	*	*	—	—	—	—	—	—
3. + Imports of Ingot	9.5	8.7	14.6	5.2	80.3	73.4	53.3	46.4	36.8	11.2	5.8
4. + Imports of Mill Products	99.8	61.6	148.9	28.8	12.2	14.0	12.3	12.2	9.4	5.3	3.2
6. – Exports of Ingot	—	—	—	—	3.8	1.7	0.5	0.4	0.5	*	0.1
7. – Exports of Mill Products	—	—	—	0.5	*	0.2	0.5	0.2	0.5	0.1	0.2
8. = Apparent Aluminum Consumption	109.2	70.3	163.5	33.4	88.6	85.5	64.6	58.1	45.3	16.3	8.7
13. Mid-Year Population (Millions)	8.0	7.8	7.8	7.8	7.8	7.6	7.5	7.3	7.1	6.9	6.7
14. = Per Capita Consumption (kg)(1)	13.7	9.0	21.0	4.3	11.4	11.2	8.6	8.0	6.4	2.4	1.3

NOTES:
(1) Without Inventory Change
**—Less than 50 metric tons*

Source: Saudi Basic Industries Corp.

SINGAPORE, REPUBLIC OF

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
3. + Imports of Ingot	14.0	11.0	18.0	11.0	8.0	9.0	6.0	8.0	4.0	4.0	1.0
4. + Imports of Mill Products	32.0	33.0	35.0	28.0	27.0	21.0	23.0	16.0	14.0	11.0	8.0
6. – Exports of Ingot	8.0	7.0	13.0	6.0	3.0	4.0	3.0	4.0	1.0	1.0	—
7. – Exports of Mill Products	8.0	7.0	14.0	7.0	4.0	4.0	4.0	4.0	1.0	1.0	1.0
8. = Apparent Aluminum Consumption	30.0	30.0	26.0	26.0	28.0	22.0	22.0	16.0	16.0	13.0	8.0
13. Mid-Year Population (Millions)	2.56	2.53	2.50	2.50	2.40	2.40	2.40	2.40	2.30	2.30	2.30
14. = Per Capita Consumption (kg)(1)	11.7	11.9	10.4	10.4	11.7	9.1	9.2	6.7	6.9	5.6	3.5

NOTES:
(1) Without Inventory Change

Source: Department of Statistics, Singapore

SOUTH AFRICA, REPUBLIC OF

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	164.6	167.4	161.3	105.8	83.7	86.0	85.1	79.5	77.4	77.5	75.1
3. + Imports of Ingot	0.4	0.2	0.4	0.7	1.8	0.3	0.6	0.6	0.4	0.6	1.3
4. + Imports of Mill Products	16.5	11.8	14.8	10.8	12.0	11.1	7.1	6.5	5.9	9.7	12.0
5. + Recovery of Secondary	25.0	28.2	31.7	27.2	28.3	27.2	16.5	10.2	9.6	4.8	5.5
6. – Exports of Ingot	90.5	82.7	110.5	24.6	2.9	12.9	33.1	38.5	29.1	15.4	19.1
7. – Exports of Mill Products	2.5	2.2	0.7	0.9	1.1	3.3	1.7	2.1	2.5	3.0	2.4
8. = Apparent Aluminum Consumption	113.5	122.7	97.0	119.0	121.8	108.4	74.5	56.2	61.6	74.2	72.4
11. + Inventory Change	–2.5	8.0	–11.6	12.3	3.7	0.4	0.8	–7.2	–1.0	3.7	0.6
12. = Aluminum Consumption	116.0	114.7	108.6	106.7	118.1	108.0	73.7	63.4	62.6	70.5	71.8
13. Mid-Year Population (Mil.) (3)	27.4	26.8	26.1	26.2	25.6	24.1	28.2	27.3	26.7	26.1	25.5
14. = Per Capita Consumption (kg)(1)	4.1	4.6	3.7	4.5	4.8	4.5	2.6	2.1	2.3	2.8	2.8
15. = Per Capita Consumption (kg)(2)	4.2	4.3	4.2	4.1	4.6	4.5	2.6	2.3	2.3	2.7	2.8

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change
(3) 1980 – 1983 Population excludes independent homelands—Republics of Transkei, Bophutatswanda and Venda
1984 – 1985 Population excludes independent homelands—Republics of Transkei, Bophutatswanda, Venda and Ciskei

Source: Aluminium Federation of South Africa

Detail may not add to totals due to rounding

SPAIN

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	370.1	380.8	355.5	365.1	396.6	386.5	259.9	212.2	211.8	210.3	211.5
3. + Imports of Ingot	9.7	10.6	12.3	18.3	13.6	3.2	7.2	37.9	36.8	14.4	28.6
4. + Imports of Mill Products	45.7	26.0	41.6	31.0	21.3	24.0	20.3	15.9	25.3	13.7	13.2
6. – Exports of Ingot	202.7	232.2	165.9	145.2	162.7	106.8	42.9	5.8	9.0	10.8	2.4
7. – Exports of Mill Products	52.0	40.5	35.3	36.9	39.0	45.4	48.2	28.0	30.0	28.8	28.6
8. = Apparent Aluminum Consumption	170.8	144.7	208.2	232.3	229.9	261.5	196.3	232.2	235.0	198.9	222.4
11. + Inventory Change	–18.0	–25.0	4.0	23.5	33.5	21.0	–18.6	–24.0	2.7	–20.0	35.0
12. = Aluminum Consumption	188.8	169.7	204.2	208.8	196.4	240.6	214.9	256.2	232.2	218.8	187.3
13. Mid-Year Population (Millions)	38.5	38.4	38.2	37.9	37.7	37.4	37.1	36.8	36.4	36.0	35.6
14. = Per Capita Consumption (kg)(1)	4.4	3.8	5.5	6.1	6.1	7.0	5.3	6.3	6.5	5.5	6.2
15. = Per Capita Consumption (kg)(2)	4.9	4.4	5.3	5.5	5.2	6.4	5.8	7.0	6.4	6.1	5.3

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change

Source: Aluminio de Galicia, S.A.

SWEDEN

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	83.7	82.9	82.2	78.9	82.8	81.6	82.0	82.0	82.6	81.4	77.4
3. + Imports of Ingot	46.3	48.5	49.7	45.5	38.7	36.9	36.7	34.2	43.4	46.7	33.7
4. + Imports of Mill Products	82.0	87.4	86.3	74.0	69.0	64.4	65.4	55.1	59.3	64.0	55.0
5. + Recovery of Secondary	29.4	30.8	24.9	23.2	24.7	24.5	24.0	25.0	24.5	24.0	34.4
6. – Exports of Ingot	41.8	38.2	39.2	35.2	37.8	17.7	19.6	38.5	32.5	13.3	5.7
7. – Exports of Mill Products	42.9	40.4	50.6	46.3	43.0	47.1	57.8	53.6	46.4	42.5	30.5
8. = Apparent Aluminum Consumption	156.7	171.0	153.3	140.1	128.4	142.6	130.7	104.2	130.9	160.3	164.2
11. + Inventory Change	–5.3	5.8	–2.0	–6.7	–0.7	12.9	–8.1	–18.5	1.2	8.6	16.1
12. = Aluminum Consumption	162.0	165.2	155.3	146.8	129.1	129.7	138.8	122.7	129.7	151.7	148.1
13. Mid-Year Population (Millions)	8.4	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.2	8.2
14. = Per Capita Consumption (kg)(1)	18.7	20.5	18.4	16.8	15.4	17.1	15.7	12.6	15.8	19.5	20.0
15. = Per Capita Consumption (kg)(2)	19.4	19.8	18.6	17.6	15.5	15.6	16.7	14.8	15.6	18.5	18.1

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change

Source: National Central Bureau of Statistics and Granges Aluminium

SWITZERLAND

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	72.6	79.2	76.0	75.3	82.5	86.3	83.0	79.6	79.8	78.2	78.8
3. + Imports of Ingot	78.5	62.8	57.2	47.4	36.1	52.8	39.6	33.9	39.2	31.1	16.1
4. + Imports of Mill Products	62.2	56.1	52.7	47.1	47.9	51.6	42.6	36.1	31.3	24.5	16.8
5. + Recovery of Secondary	26.1	23.0	21.1	18.7	20.6	19.4	19.2	17.9	20.1	17.8	14.9
6. – Exports of Ingot	19.9	25.7	26.7	25.4	22.7	22.8	26.4	17.6	16.4	19.1	11.7
7. – Exports of Mill Products	95.1	84.3	80.4	70.5	66.0	72.0	76.6	67.2	70.4	58.7	45.4
8. = Apparent Aluminum Consumption	124.4	111.1	99.9	92.6	98.3	115.3	81.6	82.6	83.6	73.8	69.5
11. + Inventory Change	0.1	–7.3	3.1	–4.2	–0.7	5.9	–6.7	–1.0	1.9	–5.9	5.0
12. = Aluminum Consumption	124.3	118.4	96.8	96.8	99.1	109.4	88.3	83.6	81.7	79.7	64.5
13. Mid-Year Population (Millions)	6.5	6.5	6.5	6.5	6.4	6.4	6.2	6.2	6.3	6.3	6.4
14. = Per Capita Consumption (kg)(1)	19.1	17.1	15.4	14.3	15.4	18.0	13.2	13.3	13.3	11.7	10.9
15. = Per Capita Consumption (kg)(2)	19.1	18.2	15.0	15.0	15.5	17.1	14.2	13.5	13.0	12.7	10.1

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change

Source: Vereinigung Schweizerischer Aluminium – Halbzeugwerke

Detail may not add to totals due to rounding.

Per Capita Aluminum Consumption—Continued

Thousands of Metric Tons

TAIWAN, REPUBLIC OF CHINA

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	—	—	—	10.0	30.0	62.5	56.2	50.4	29.8	25.5	28.0
3. + Imports of Ingot	147.2	99.9	139.1	88.6	47.7	58.3	52.9	47.6	52.5	36.4	11.5
4. + Imports of Mill Products	32.4	22.8	23.2	15.0	9.7	9.6	11.3	7.3	5.8	6.2	2.0
5. + Recovery of Secondary	3.6	5.3	24.2	15.5	16.8	19.2	13.8	9.5	8.7	6.2	5.9
6. – Exports of Ingot	5.8	3.1	2.6	0.6	—	*	*	0.4	0.1	0.3	1.5
7. – Exports of Mill Products	29.6	17.3	18.4	14.0	19.2	17.2	15.1	7.4	3.6	3.6	3.7
8. = Apparent Aluminum Consumption	147.8	107.6	165.5	114.5	85.0	132.5	119.1	107.0	93.1	70.3	42.3
11. + Inventory Change	na	na	na	0.9	–33.6	23.9	0.1	7.8	13.9	6.0	–7.6
12. = Aluminum Consumption	na	na	na	113.6	118.6	108.6	119.0	99.2	79.2	64.3	49.9
13. Mid-Year Population (Millions)	19.0	18.8	18.6	18.3	18.0	17.8	17.5	17.0	16.7	16.3	16.0
14. = Per Capita Consumption (kg)[1]	7.8	5.7	8.9	6.3	4.7	7.4	6.8	6.3	5.6	4.3	2.6
15. = Per Capita Consumption (kg)[2]	na	na	na	6.2	6.6	6.1	6.8	5.8	4.7	3.9	3.1

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change
**—Less than 50 metric tons*

Source: Taiwan Aluminium Corporation

TURKEY, REPUBLIC OF

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	139.5	105.5	98.5	91.4	41.5	35.0	34.1	40.7	46.8	41.0	16.3
3. + Imports of Ingot	59.6	68.5	60.0	35.1	60.1	6.4	13.0	11.2	40.9	26.9	51.7
4. + Imports of Mill Products	6.1	3.1	5.7	8.6	10.8	21.6	7.0	1.7	3.0	3.9	2.9
6. – Exports of Ingot	—	0.2r	1.3r	1.0	—	—	—	—	—	—	—
7. – Exports of Mill Products	29.5	27.1	21.4	14.3	22.1	16.0	6.0	6.2	9.8	8.8	3.2
8. = Apparent Aluminum Consumption	175.7	149.9r	141.6r	119.7	90.3	47.0	48.1	47.4	80.9	63.0	67.8
13. Mid-Year Population (Millions)	49.3	48.3	47.3	46.3	45.3	44.4	43.5	42.6	41.8	40.9	40.0
14. = Per Capita Consumption (kg)[1]	3.6	3.1r	3.0r	2.6	2.0	1.1	1.1	1.1	1.9	1.5	1.7

NOTES:
(1) Without Inventory Change
r—Revised

Source: State Institute of Statistics

UNITED KINGDOM

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	275.4	297.9	252.5	240.8	339.2	374.5	359.4	346.2	348.9	334.4	308.3
3. + Imports of Ingot	146.2	170.2	162.4	154.8	123.3	169.5	182.1	185.2	197.4	217.9	160.2
4. + Imports of Mill Products	227.4	234.2	224.2	200.6	157.4	145.0	179.4	157.9	130.3	112.1	75.0
5. + Recovery of Secondary	129.6	137.1	122.6	108.4	140.7	150.0	159.9	174.2	182.3	187.8	167.1
6. – Exports of Ingot	122.9	118.2	126.5	117.5	168.5	188.9	200.0	155.5	142.7	158.2	87.7
7. – Exports of Mill Products	104.6	104.7	90.9	93.0	77.6	101.6	71.2	59.9	64.2	59.6	54.0
8. = Apparent Aluminum Consumption	551.1	606.5	544.3	494.1	514.6	548.3	609.6	648.0	651.9	634.4	568.9
9. + Beginning Inventory	119.4	118.7	106.4	85.1	97.4	96.1	46.2	72.6	90.9	92.2	76.1
10. – Ending Inventory	105.2	119.4	118.7	106.4	85.1	97.4	96.1	46.2	72.6	90.9	92.2
11. = Inventory Change	–14.2	–0.7	12.3	21.3	–12.3	1.4	49.9	–26.4	–18.3	–1.3	16.1
12. = Aluminum Consumption	565.3	605.8	532.0	472.8	526.9	546.9	559.7	674.4	670.2	635.7	552.8
13. Mid-Year Population (Millions)	56.5	56.4	56.0	56.0	68.0	67.0	55.8	55.9	55.9	56.1	58.3
14. = Per Capita Consumption (kg)[1]	9.8	10.8	9.7	8.8	7.6	8.2	10.9	11.6	11.7	11.3	9.8
15. = Per Capita Consumption (kg)[2]	10.0	10.7	9.5	8.4	7.7	8.2	10.0	12.1	12.0	11.3	9.5

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change

Source: Aluminium Fedderation, Ltd.

Detail may not add to totals due to rounding

UNITED STATES of AMERICA

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	3,499.7	4,099.1	3,353.3	3,273.7	4,488.7	4,653.6	4,556.9	4,358.0	4,117.5	3,856.8	3,519.1
2. ± Gov't Stockpile Adj.	—	—	—	—	—	—	—	—	—	8.3	2.3
3. + Imports of Ingot	868.7	882.0	742.7	616.3	644.7	526.8	517.8	687.5	608.1	522.0	393.8
4. + Imports of Mill Products	463.0	494.3	280.5	206.7	137.9	76.2	193.4	219.7	74.8	85.7	59.1
5. + Recovery of Secondary	1,762.0	1,760.0	1,773.0	1,665.6	1,789.9	1,576.7	1,612.1	1,517.7	1,456.0	1,334.5	1,121.3
6. – Exports of Ingot	347.3	259.6	360.7	363.9	312.3	648.6	182.1	114.9	88.7	138.3	168.6
7. – Exports of Mill Products	199.3	228.7	202.1	223.4	309.2	346.3	282.0	224.2	234.3	234.0	196.5
8. = Apparent Aluminum Consumption	6,046.8	6,747.0	5,586.6	5,175.1	6,439.8	5,838.5	6,416.2	6,443.9	5,933.3	5,435.2	4,730.4
9. + Beginning Inventory	2,653.7	2,265.4r	2,811.8	2,996.7	2,302.5	2,324.8	2,492.1	2,588.4	2,585.9	2,721.0	2,338.7
10. – Ending Inventory	2,340.7	2,653.7r	2,266.4	2,812.0	2,996.7	2,302.5	2,324.8	2,492.1	2,588.4	2,585.9	2,721.0
11. = Inventory Change	– 313.0	388.3	– 546.5	– 184.7	694.3	– 22.3	– 167.3	– 96.3	2.5	– 135.2	(382.3)
12. = Aluminum Consumption	6,359.8	6,358.7r	6,133.1	5,359.8	5,745.5	5,860.8	6,583.5	6,540.2	5,930.8	5,570.4	4,348.1
13. Mid-Year Population (Millions)	238.7	236.5	234.0	231.5	229.3	227.7	220.6	217.7	216.8	215.1	213.6
14. = Per Capita Consumption (kg)[1]	25.3	28.5	23.9	22.4	28.1	25.6	29.1	29.6	27.4	25.3	22.1
15. = Per Capita Consumption (kg)[2]	26.6	26.9r	26.2	23.2	25.1	25.7	29.8	30.0	27.4	25.9	20.4

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change
r—Revised

Source: the Aluminum Association, Inc

VENEZUELA

	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
1. + Primary Aluminum Production	na	384.0	334.0	273.6	313.5	321.3	210.3	67.1	43.4	46.4	44.9
3. + Imports of Ingot	na	—	—	0.9	0.4	0.2	9.1	—	7.9	2.0	0.2
4. + Imports of Mill Products	na	21.0	13.0	25.7	23.8	24.8	15.3	27.1	15.4	9.5	4.7
5. + Recovery of Secondary	na	14.0	20.0	10.0	10.0	10.0	10.2	10.0	1.3	2.4	0.6
6. – Exports of Ingot	na	349.0	320.0	208.5	239.0	217.3	123.4	28.1	10.4	17.6	0.0
7. – Exports of Mill Products	na	3.0	3.0	0.2	24.4	37.1	23.0	—	—	—	—
8. = Apparent Aluminum Consumption	na	67.0	44.0	101.5	84.3	101.9	98.4	76.1	57.5	42.8	50.4
9. + Beginning Inventory	na	65.0	63.0	48.8	25.4	20.2	10.1	1.1	3.7	8.5	1.5
10. – Ending Inventory	na	94.0	65.0	55.9	48.8	25.4	20.2	10.2	5.5	3.2	7.3
11. = Inventory Change	na	29.0	2.0	7.1	23.4	5.2	10.2	9.1	1.8	– 5.4	5.9
12. = Aluminum Consumption	na	38.0	42.0	94.4	60.9	96.7	88.3	67.0	55.7	48.2	44.5
13. Mid-Year Population (Millions)	na	16.6	16.1	14.9	14.6	13.9	13.5	13.1	12.7	12.9	12.5
14. = Per Capita Consumption (kg)[1]	na	4.0	2.7	6.8	5.8	7.3	7.3	5.8	4.5	3.3	4.0
15. = Per Capita Consumption (kg)[2]	na	2.3	2.6	6.3	4.2	7.0	6.5	5.1	4.4	3.7	3.6

NOTES:
(1) Without Inventory Change
(2) Adjusted for Inventory Change

Source: Aluminio del Caroni, S.A.

ACSR AND ALUMINUM CABLE, BARE—Aluminum stranded conductor reinforced by a core of steel (ACSR), or aluminum (ACAR); or any other bare stranded aluminum conductor.

ATOMIZED POWDER—Powder produced by blowing or asperating molten metal through an orifice.

CASTING—A product made by pouring molten metal into a mold of a desired shape and letting it harden.

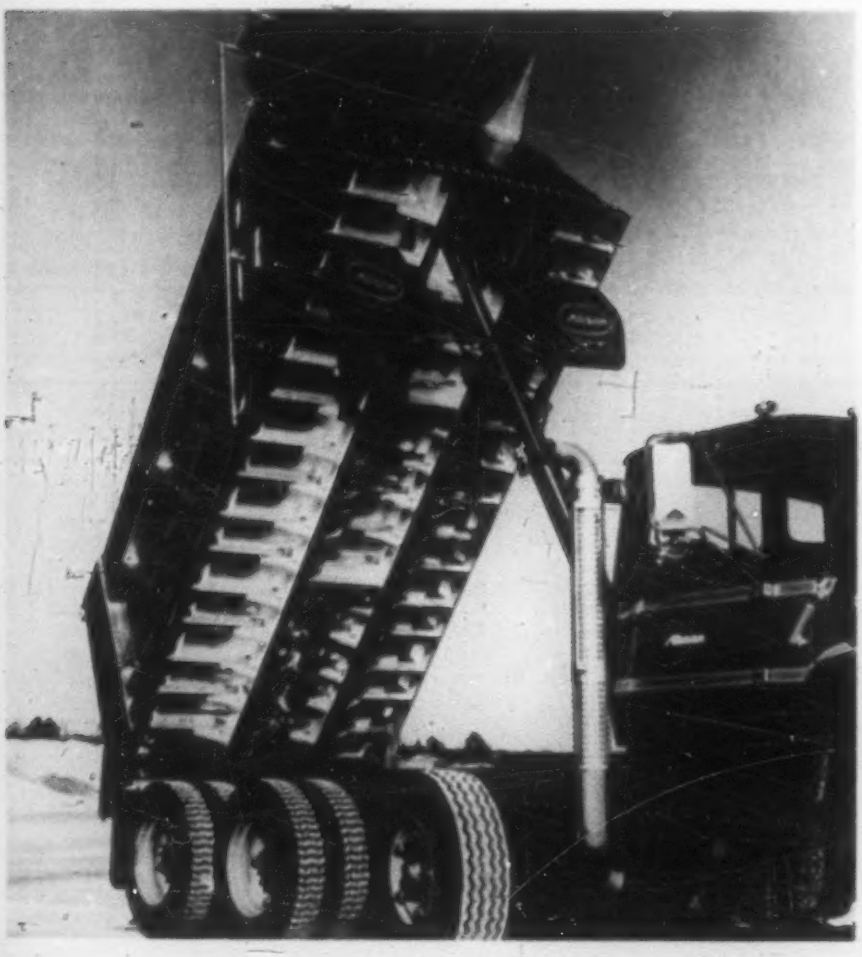
CONDUCTOR REDRAW ROD (CONTINUOUS-CAST OR ROLLED)—A solid round product that is long in relation to cross section, 0.375" or greater in diameter, produced by continuous casting followed by size-rolling, or by rolling from D.C. cast ingot, suitable for drawing into electrical conductor wire.

DIRECT MILL USES—Finished product applications supplied for the most part directly from mills rather than from distributors or jobber warehouses.

DRAWING STOCK (Redraw Rod)—See Conductor or Non Conductor Redraw Rod.

DRAWN TUBE—A hollow product that is long in relation to its cross section, which is round, square, rectangular, hexagonal, octagonal, or elliptical in shape, and brought to final dimensions by drawing.

DROSS AND SKIMMINGS—The mixture of oxides and other impurities which float to the surface of molten aluminum and is skimmed off.



EXTRUDED PIPE AND TUBE—A hollow product formed by extruding that is long in relation to its cross section, which is round, square, rectangular, hexagonal, octagonal, or elliptical in shape.

EXTRUDED ROD AND BAR—A solid product produced by extruding (sometimes brought to final dimensions by drawing) that is long in relation to cross section, which is round, square, rectangular, hexagonal, or octagonal in shape and 0.375" or greater in diameter or in at least one perpendicular distance between parallel faces.

EXTRUDED SHAPES—A product produced by extruding, that is long in relation to its cross-sectional dimensions and has a cross section other than that of rod and bar and pipe and tube.

EXTRUSION INGOT (BILLET)—A solid or hollow cast form, usually cylindrical, suitable for extruding.

FLAKED POWDER—Powder consisting of flat or scale-like particles of a thickness small compared with other dimensions, produced by milling in the presence of a lubricant.

FOIL—A flat rolled product, rectangular in cross section, of thickness less than 0.006".

FORGINGS (EXCLUDING IMPACT EXTRUSIONS)—A product worked to a predetermined shape by one or more processes such as hammering, upsetting, pressing, rolling, etc.

GENERAL LINE DISTRIBUTOR—Warehouses and sells a number of mill products to a wide variety of customers.

IMPACTS (EXCLUDING COLLAPSIBLE TUBES AND CANS)—A product formed in a confining die from a metal slug, usually cold, by rapid single stroke application of force through a punch, causing the metal to flow around the punch and/or through an opening in the punch or die.

Aluminum dump truck beds are approximately 1,500 pounds lighter than steel beds and conserve both time and money by allowing more pounds per trip.

INTEGRATED PRODUCER (OR SUPPLIER)—For statistical reporting, a company which produces primary aluminum ingot in the United States and produces mill products from it.

METALLURGICAL/DESTRUCTIVE USES—Applications wherein, because of the way it is used, aluminum either loses its identity or is lost and cannot be recovered. Major uses include the deoxidizing of steel and reduction of ferroalloys; steel and other nonferrous metal alloys; steel coating; and such other applications as chemicals and catalysts.

MILL PRODUCTS—Metal that has been fashioned into an intermediate or semifabricated form in preparation for making a finished product. Example: sheet, a mill product, is used to make residential siding, a finished product.

NET SHIPMENTS—Excludes intraindustry shipments for further fabrication. It is the most accurate measure of industry output to markets because it eliminates duplication. Reported receipts of aluminum for further processing are subtracted.

NONCONDUCTOR REDRAW ROD (CONTINUOUS-CAST OR ROLLED)—A solid round product that is long in relation to cross section, 0.376" or greater in diameter, produced by continuous casting followed by size-rolling, or by rolling from D.C. cast ingot, suitable for drawing into nonconductor wire.

NONINTEGRATED FABRICATOR (OR SUPPLIER)—For statistical reporting, a U.S. mill product fabricator which is not affiliated with a domestic primary ingot producer.

OTHER INGOT AND MOLTEN METAL, PRIMARY—For statistical purposes, a cast form other than extrusion ingot (or molten metal), shipped by an integrated producer or nonintegrated fabricator from a company-owned facility not exclusively devoted to producing secondary ingot.

OTHER INGOT AND MOLTEN METAL, SECONDARY—For statistical purposes, a cast form other than extrusion ingot (or molten metal), principally produced from aluminum scrap to specification by secondary smelters (or others at a facility exclusively devoted to producing ingot from scrap for sale); excludes remelt scrap ingot (RSI) which is considered scrap until remelted and cast into specification ingot.

OTHER ROD AND BAR (CONTINUOUS-CAST OR ROLLED)—A solid, round, square, rectangular, hexagonal, or octagonal in shape produced by continuous casting or rolling, that is long in relation to cross section, 0.375" or greater in diameter or in at least one perpendicular distance between parallel faces; other than redraw rod and D.C. cast ingot.

PASTE—A blend of powder or flake with a thinner or plasticizer.

PLATE, NONHEAT-TREATABLE—A flat rolled product, rectangular in cross section, 0.250" or greater in thickness, which can be strengthened only by cold work.

PLATE, HEAT-TREATABLE—A flat rolled product, in 2000, 6000, or 7000 alloy series (except 7072), rectangular in cross section, 0.250" or greater in thickness, which can be strengthened by a suitable thermal treatment.

POWDER—An aggregate of discrete particles of aluminum, substantially all of which are finer than 1,000 microns (minus 18 mesh).

RECEIPTS—The metal physically received by a company for further processing.

REIMPORTS—Mill products that have been exported, partially processed outside the United States, and imported back to the United States while still in a mill product stage.

ROLLED STRUCTURAL SHAPES—A structural shape produced by hot rolling.

SCRAP—Includes "New" (prompt industrial) scrap, purchased, imported, or created on toll, in all forms; and "Old" (post consumer or obsolete) scrap, including sweated pig; also remelt scrap ingot (RSI) which is considered scrap until remelted and cast into specification ingot.

SECONDARY SMELTER—A company whose facilities are exclusively devoted to producing ingot or molten aluminum from scrap.

SEMIFABRICATED PRODUCTS—See Mill Products.

SHEET, NONHEAT-TREATABLE—A rolled product, flat or coiled, rectangular in cross section, of 0.006" thickness but under 0.250" thickness, which can be strengthened only by cold work.

SHEET, HEAT-TREATABLE—A rolled product, in 2000, 6000, or 7000 alloy series (except 7072), flat or coiled, rectangular in cross section, of 0.006" thickness but under 0.250" thickness, which can be strengthened by a suitable thermal treatment.

STATISTICAL ADJUSTMENT—An adjustment made to product shipments data to account for net shipments of aluminum reported by the Bureau of the Census which are believed to be either over- or understated in the amounts indicated due to excessive or insufficient reporting. It also includes otherwise unpublished Census revisions. The addition of the statistical adjustment reconciles the amounts reported by the Bureau of the Census with the net shipments that the Aluminum Association feels are more correct.

WELDED TUBE—A hollow product that is long in relation to its cross section, which is round, square, rectangular, hexagonal, octagonal, or elliptical in shape, produced by forming and seam-welding sheet longitudinally.

WIRE, BARE, CONDUCTOR AND NONCONDUCTOR—A solid wrought product that is long in relation to its cross section, which is square, round, rectangular, hexagonal, or octagonal in shape, whose diameter or greatest perpendicular distance between parallel faces (except for flattened wire) is less than 0.375".

WIRE AND CABLE, INSULATED OR COVERED—Aluminum electrical conductor wire or stranded conductors that are insulated or covered.

Publications

The following publications are available from the Aluminum Association, Inc.

Aluminum Situation (monthly)
U.S. Exports and Imports of Aluminum (monthly and quarterly)
Aluminum Extrusion Press Directory (1985)
Aluminum Statistical Review Historical Supplement
U.S. Aluminum Industry Plant Directory (1985)
Publications Guide of the Aluminum Association
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